December 19, 2024

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VIA EMAIL
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Subject: Air Quality and Greenhouse Gas Emissions Technical Memorandum for the Santiago Creek Dam Outlet and Spillway Improvements Project

Dear Mr. Uk:

This Letter Report presents the results of the air quality and greenhouse gas (GHG) emissions analyses for the proposed Santiago Creek Dam Outlet and Spillway Improvements Project in unincorporated Orange County, California (hereinafter referred to as the "Project"). This analysis addresses the potential air quality impacts associated with the Project in accordance with the California Environmental Quality Act (CEQA) (California Public Resources Code §21000 et seq.) and the State CEQA Guidelines (California Code of Regulations, Title 14, §15000 et seq.).

PROJECT SETTING AND DESCRIPTION

The proposed Project would include rehabilitation and replacement of the Santiago Creek Dam outlet works and spillway facilities, necessary to address identified seismic and dam safety concerns. The Project involves dewatering, demolition activities, and construction of inlet/outlet works, downstream outlet works, pipelines, ancillary site improvements, and utility relocation. The Project site is located at Santiago Creek Dam at the northwest end of Irvine Lake in Unincorporated Orange County, California. The Project site location is shown on Exhibit 1-1 and 1-2, Regional Location and Aerial Photograph, and is described in more detail below.

AIR QUALITY ANALYSIS

The Project site is located in the Orange County portion of the South Coast Air Basin (SoCAB), and, for air quality regulation and permitting, is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The SoCAB is a 6,600-square-mile area bound by the Pacific Ocean to the west; the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east; and the San Diego County line to the south. The SoCAB includes all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. The SoCAB's terrain and geographical location (i.e., a coastal plain with connecting broad valleys and low hills) determine its distinctive semi-arid climate, which is characterized by moderate temperatures, oceanic influence, and precipitation that is limited to a few storms during the winter (i.e., November through April).

Regulatory Background

Air quality in the SoCAB is regulated by the USEPA, CARB, and the SCAQMD. Each of these agencies develops rules, regulations, policies, and/or goals to comply with applicable legislation. Although USEPA regulations may not be superseded, both State and local regulations may be more stringent. The Southern California Association of Governments (SCAG) is an important partner to the SCAQMD and produces estimates of anticipated future growth and vehicular travel in the basin that are used for air quality planning. The federal, State, regional, and local regulations for CAPs and TACs are discussed below.

Federal

The Federal Clean Air Act (CAA) requires the adoption of National Ambient Air Quality Standards (NAAQS), which are periodically updated to protect the public health and welfare from the effects of air pollution. The USEPA is responsible for setting and enforcing the NAAQS for criteria pollutants. Primary standards set limits to protect public health, including the health of at-risk populations such as people with pre-existing heart or lung disease (such as asthmatics), children, and older adults. Secondary standards set limits to protect public welfare, including protection against visibility impairment as well as damage to animals, crops, vegetation, and buildings.

Current federal standards are set for Ozone (O3), carbon monoxide (CO), nitrogen dioxide (NO2), sulfur dioxide (SO2), particulate of <10 microns (PM10), particulates of <2.5 microns (PM2.5), and lead. These pollutants are called criteria pollutants because the USEPA has established National Ambient Air Quality Standards (NAAQS) for the concentrations of these pollutants. CARB has also established standards for the criteria pollutants, known as California Ambient Air Quality Standards (CAAQS), and the State standards are generally more restrictive than the NAAQS. When a region has air quality that fails to meet the standards, the USEPA and the CARB designate the region as “nonattainment” and the regional air quality agency must develop plans to attain the standards. NAAQS are shown above in Table 1.

TABLE 1
CALIFORNIA AND FEDERAL AMBIENT AIR QUALITY STANDARDS

Pollutant	Averaging Time	California Standards	Federal Standards	
			Primary[a]	Secondary[b]
O_3	1 Hour	0.09 ppm (180 µg/m^3)	–	–
	8 Hour	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)	Same as Primary
PM10	24 Hour	50 µg/m^3	150 µg/m^3	Same as Primary
	AAM	20 µg/m^3	–	Same as Primary
PM2.5	24 Hour	–	35 µg/m^3	Same as Primary
	AAM	12 µg/m^3	12.0 µg/m^3	15.0 µg/m^3
CO	1 Hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	–
	8 Hour	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	–
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)	–	–
NO_2	AAM	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)	Same as Primary
	1 Hour	0.18 ppm (339 µg/m^3)	0.100 ppm (188 µg/m^3)	–
SO_2	24 Hour	0.04 ppm (105 µg/m^3)	–	–
	3 Hour	–	–	0.5 ppm (1,300 µg/m^3)
	1 Hour	0.25 ppm (655 µg/m^3)	0.075 ppm (196 µg/m^3)	–
Lead	30-day Avg.	1.5 µg/m^3	–	–
	Calendar Quarter	–	1.5 µg/m^3	Same as Primary
	Rolling 3-month Avg.	–	0.15 µg/m^3	
Visibility Reducing Particles	8 Hour	Extinction coefficient of 0.23 per km – visibility ≥ 10 miles (0.07 per km – ≥30 miles for Lake Tahoe)	**No Federal Standards**	
Sulfates	24 Hour	25 µg/m^3		
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)		
Vinyl Chloride	24 Hour	0.01 ppm (26 µg/m^3)		

O_3: ozone; ppm: parts per million; µg/m^3: micrograms per cubic meter; PM10: respirable particulate matter 10 microns or less in diameter; AAM: Annual Arithmetic Mean; –: No Standard; PM2.5: fine particulate matter 2.5 microns or less in diameter; CO: carbon monoxide; mg/m^3: milligrams per cubic meter; NO_2: nitrogen dioxide; SO_2: sulfur dioxide; km: kilometer.

[a] *National Primary Standards:* The levels of air quality necessary, within an adequate margin of safety, to protect the public health.

[b] *National Secondary Standards:* The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

Note: More detailed information in the data presented in this table can be found at the CARB website (www.arb.ca.gov).

Source: CARB 2016

Specific geographic areas are classified as either "attainment" or "nonattainment" areas for each pollutant based upon the comparison of measured data with the NAAQS. Attainment areas have concentrations of the criteria pollutant that are below the NAAQS, and a Nonattainment classification indicates the criteria pollutant concentrations have exceeded the NAAQS. When an area has been reclassified from a nonattainment to an attainment area for a federal standard, the status is identified as "maintenance", and there must be a plan and measures that will keep the region in attainment for the following ten years. Areas designated as nonattainment are required to prepare regional air quality plans, which set forth a strategy for bringing an area into compliance with the standards. These regional air quality plans, which are developed to meet federal requirements, are included in an overall program referred to as the State Implementation Plan (SIP).

State of California

CARB, a part of the California Environmental Protection Agency (CalEPA), has also established the California Ambient Air Quality Standards (CAAQS) shown in Table 1, which are generally more restrictive than the NAAQS. CARB conducts research; compiles emissions inventories; develops suggested control measures; provides oversight of local programs; and prepares the SIP. For regions that do not attain the CAAQS, CARB requires the air districts to prepare plans for attaining the standards. CARB establishes emissions standards for motor vehicles sold in California, consumer products (e.g., hair spray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

Based on monitored air pollutant concentrations, the USEPA and the CARB designate an area's status in attaining the NAAQS and the CAAQS, respectively, for selected criteria pollutants. These attainment designations are shown in Table 2. As identified in Table 2, Orange County is a nonattainment area for O3, PM10, and PM2.5.

TABLE 2
ATTAINMENT STATUS OF CRITERIA POLLUTANTS
IN THE SOUTH COAST AIR BASIN

Pollutant	State	Federal
O_3 (1 hour)	Nonattainment	No standard
O_3 (8 hour)		Extreme Nonattainment
PM10	Nonattainment	Attainment/Maintenance
PM2.5	Nonattainment	Serious Nonattainment
CO	Attainment	Attainment/Maintenance
NO_2	Attainment	Attainment/Maintenance
SO_2	Attainment	Attainment
Lead	Attainment	Attainment/Nonattainment*
All others	Attainment/Unclassified	No standards

O_3: ozone; PM10: respirable particulate matter 10 microns or less in diameter; PM2.5: fine particulate matter 2.5 microns or less in diameter; CO: carbon monoxide; NO_2: nitrogen dioxide; SO_2: sulfur dioxide; SoCAB: South Coast Air Basin.

* Los Angeles County is classified nonattainment for lead; the remainder of the SoCAB is in attainment of the State and federal standards.

Source: SCAQMD 2016

Regional

South Coast Air Quality Management District and Southern California Association of Governments

In the SoCAB, the SCAQMD is the agency responsible for protecting public health and welfare through the administration of federal and State air quality laws, regulations, and policies. Included in the SCAQMD's tasks are the monitoring of air pollution; the preparation of the Air Quality Management Plan (AQMP) for the SoCAB; and the promulgation of rules and regulations.

In the Project area, SCAG is the federally designated Metropolitan Planning Organization and the State-designated transportation planning agency for six counties: Riverside, San Bernardino, Los Angeles, Ventura, Imperial, and Orange. On June 5, 2020, SCAG's Regional Council adopted the 2020–2045 Regional Transportation Plan/Sustainable Communities Strategy (Connect Socal). The RTP/SCS is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. The RTP/SCS includes a strong commitment to reduce emissions from transportation sources in order to improve public health, to meet the NAAQS as set forth by the CAA.

The SCAQMD and SCAG are jointly responsible for formulating and implementing the AQMP for the SoCAB. SCAG's Regional Mobility Plan and Growth Management Plan form the basis for the land use and transportation control portion of the AQMP.

Air Quality Management Plan

Air quality in Orange County is partially regulated by the SCAQMD, which is the agency principally responsible for comprehensive air pollution control in the SoCAB. The SCAQMD develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary. The SCAQMD is directly responsible for reducing emissions from stationary (area and point), mobile, and indirect sources.

The Federal CAA requires the preparation of plans to demonstrate attainment of the NAAQS for which an area is designated as being in nonattainment. Furthermore, the CAA requires the revision of these plans every three years to address reducing pollutant concentrations that exceed the CAAQS. The SCAQMD and SCAG, in coordination with local governments and the private sector, develop the Air Quality Management Plan (AQMP) for the SoCAB to satisfy these requirements. The AQMP is the most important air management document for the SoCAB because it provides the blueprint for meeting State and federal ambient air quality standards.

The current regional plan applicable to the Project is the SCAQMD's 2022 AQMP. The SCAQMD is responsible for ensuring that the SoCAB meets the NAAQS and CAAQS by reducing emissions from stationary (area and point), mobile, and indirect sources. To accomplish this goal, the SCAQMD prepares AQMPs in conjunction with the SCAG, County transportation commissions, and local governments; develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary.

The 2022 AQMP was adopted on December 2, 2022, by the SCAQMD Governing Board. The 2022 AQMP evaluates integrated strategies and measures to meet the following NAAQS (SCAQMD 2022):

- 8-hour O_3 target of 80 parts per billion (ppb) by 2024, 75 ppb by 2032, 70 ppb by 2038;
- Annual PM2.5 (12 micrograms per cubic meter [$\mu g/m^3$]) by 2025;

- 1-hour O_3 (120 ppb) by 2023; and
- 24-hour PM2.5 (35 $\mu g/m^3$) by 2023.

South Coast Air Quality Management District Rules

The Project will be required to comply with existing SCAQMD rules for the reduction of fugitive dust and criteria pollutant emissions. The following rules are most relevant to the proposed Project:

SCAQMD Rule 201 requires a "Permit to Construct" prior to the installation of any equipment "the use of which may cause the issuance of air contaminants . . ." and Regulation II provides the requirements for the application for a Permit to Construct. Rule 203 similarly requires a Permit to Operate. Rule 219, Equipment not Requiring a Written Permit Pursuant to Regulation II, identifies "equipment, processes, or operations that emit small amounts of contaminants that shall not require written permits . . ."

SCAQMD Rule 402, Nuisance, states that a project shall not "discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property".

SCAQMD Rule 403, Fugitive Dust, requires actions to prevent, reduce, or mitigate fugitive particulate matter emissions. These actions include applying water or chemical stabilizers to disturbed soils; managing haul road dust by applying water; covering all haul vehicles before transporting materials; restricting vehicle speeds on unpaved roads to 15 miles per hour (mph); and sweeping loose dirt from paved site access roadways used by construction vehicles. In addition, Rule 403 requires that vegetative ground cover be established on disturbance areas that are inactive within 30 days after active operations have ceased. Alternatively, an application of dust suppressants can be applied in sufficient quantity and frequency to maintain a stable surface. Rule 403 also requires grading and excavation activities to cease when winds exceed 25 mph.

SCAQMD Rule 1113 governs the sale of architectural coatings and limits the VOC content in paints and paint solvents. Although this rule does not directly apply to the Project, it does dictate the VOC content of paints available for use during building construction.

Local

Unincorporated Orange County

There are no County regulations applicable to the Project's potential impacts on air quality. However, the Orange County General Plan addresses air quality in the unincorporated territory where the Project takes place. Within its Transportation Element, updated in 2020, the General Plan states that it is responsive to the Air Quality Management District (AQMD) objectives, and regional planning objectives of the Southern California Association of Governments (SCAG).[1] Similarly, the Land Use Element notes that "the purpose of the Enhancement of Environment Policy is to ensure that all land use activities seek to enhance the physical environment, including the air, water, sound levels, landscape, and plant and animal

[1] Orange County General Plan, Transportation Element Update 2020. Accessed June 2023, https://ocds.ocpublicworks.com/sites/ocpwocds/files/2020-12/Chapter%20IV-%20Transportation%202020.pdf

life."[2] The Resources Element (2013) has the most robust discussion on air quality affecting the area. It advances the goal to promote optimum sustainable environmental standards for air resources with an explicit policy to develop and support programs which improve air quality or reduce air pollutant emissions.[3] The Project is consistent with these General Plan goals, plans, and objectives to enhance the physical environment including air and water in Orange County.

Pollutants

The U.S. Environmental Protection Agency (USEPA) defines seven "criteria" air pollutants: SO_2, CO, NO_2, O_3, PM_{10}, $PM_{2.5}$, and lead. The characteristics and health effects of these criteria pollutants are described below:

Ozone (O_3)

O_3 is a secondary pollutant; it is not directly emitted. O_3 is formed by chemical reactions between VOCs (also referred to as reactive organic gasses [ROGs]) and NOx, which occur only in the presence of bright sunlight. VOC/ROG emissions are generally unburned hydrocarbons that are a result of motor vehicle travel and other combustion sources. Nitrogen oxides are also a result of the combustion process, most notably due to the operation of motor vehicles. Sunlight and hot weather cause ground-level $O_3$to form. (Not to be confused with the "ozone layer" which occurs very high in the atmosphere and shields the planet from some ultraviolet [UV] rays.) As a result, O_3 is known as a summertime air pollutant. Ground-level ozone is the primary constituent of smog. Because ground-level ozone is formed in the atmosphere, high concentrations can occur in areas well away from sources of its constituent pollutants.

People with lung disease, children, older adults, and people who are active are the most sensitive when O_3 levels are unhealthy. Numerous scientific studies have linked ground-level O_3 exposure to a variety of health problems, including:

- lung irritation that can cause inflammation much like a sunburn;
- wheezing, coughing, pain when taking a deep breath, and breathing difficulties during exercise or outdoor activities;
- permanent lung damage to those with repeated exposure to O_3 pollution; and
- aggravated asthma, reduced lung capacity, and increased susceptibility to respiratory illnesses like pneumonia and bronchitis.

Ground-level O_3 can also have detrimental effects on plants and ecosystems. These effects include:

- interfering with the ability of sensitive plants to produce and store food, making them more susceptible to certain diseases, insects, other pollutants, competition, and harsh weather;
- damaging the leaves of trees and other plants, negatively impacting the appearance of urban vegetation, national parks, and recreation areas; and

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2 Orange County General Plan, Land Use Element 2022. Accessed June 2023, https://ocds.ocpublicworks.com/sites/ocpwocds/files/2022-10/Adopted%20Land%20Use%20Element%20Amendment%20-%20Sept%202022.pdf

3 Orange County, General Plan, Resources Element 2013. Accessed June 2013, https://ocds.ocpublicworks.com/sites/ocpwocds/files/import/data/files/40235.pdf

- reducing crop yields and forest growth, potentially impacting species diversity in ecosystems.

Currently, the SoCAB is designated as a "Nonattainment Area" for the State and federal O_3 standards.

Particulate Matter (PM_{10}, $PM_{2.5}$, and UFP)

Particulate matter includes both aerosols and solid particles of a wide range of size and composition. Of particular concern are inhalable particulate matter, which are those particles equal to or smaller than 10 microns in size (PM_{10}); fine particulate matter, which are particles smaller than or equal to 2.5 microns ($PM_{2.5}$); and ultrafine particulate matter (UFP), which are particles less than 0.1 micron. The size of the particulate matter refers to the aerodynamic diameter of the particulate. Smaller particulates are of greater concern because they can penetrate deeper into the lungs than large particles. $PM_{2.5}$ is directly emitted in combustion exhaust and fugitive dust and is formed from atmospheric reactions between various gaseous pollutants, including NOx, SOx, and VOCs. PM_{10} is directly emitted as a result of mechanical processes that crush or grind larger particles or from the re-suspension of dusts most typically through construction activities and vehicular travels. $PM_{2.5}$ and PM_{10} can remain suspended in the atmosphere for days and/or weeks and can be transported long distances. Ultrafine particles are the smallest particles and are good indicators of any kind of fuel burning, from diesel engines to refinery operations.

The principal health effects of airborne particulate matter are on the respiratory and cardiac systems. According to the USEPA, some people are more sensitive than others to breathing fine particles (USEPA 2023). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM_{10} and $PM_{2.5}$. Other groups considered sensitive are smokers and people who cannot breathe well through their noses. Exercising athletes are also considered sensitive, because many breathe through their mouths. However, all people exposed to elevated levels of particulate matter may experience temporary health effects (USEPA 2016a).

Short-term exposure to high $PM_{2.5}$ levels is associated with premature mortality and increased hospital admissions and emergency room visits. Long-term exposure to high $PM_{2.5}$ levels is associated with premature mortality and development of chronic respiratory disease. Short-term exposure to high PM_{10} levels is associated with hospital admissions for cardiopulmonary diseases, increased respiratory symptoms, and possible premature mortality. There are national and State 24-hour PM_{10} standards, but there is no annual long-term standard. With respect to long-term PM_{10} health effects, the USEPA concluded in a 2006 standards review that analysis of air quality data showed that the 24-hour PM_{10} standard generally resulted in annual average PM_{10} levels at or below the annual standard of 50 $\mu g/m^3$ and that available evidence did not suggest an association between long-term exposure to PM_{10} at 2006 ambient levels and health problems. Based on this conclusion, the national PM_{10} annual standard was revoked (USEPA 2006). However, California maintains an annual PM_{10} standard.

No federal or State standards have been established for UFP. Currently, PM_{10} levels in the SoCAB is designated as "Nonattainment areas" for State standards and "Attainment/Maintenance areas" for federal standards. $PM_{2.5}$ levels in the SoCAB are designated as "Nonattainment areas" for State and federal standards.

Carbon Monoxide (CO)

CO is a colorless and odorless gas which, in the urban environment, is associated primarily with the incomplete combustion of fossil fuels in motor vehicles. CO combines with hemoglobin in the

bloodstream and reduces the amount of oxygen that can be circulated through the body. High CO concentrations can lead to headaches, aggravation of cardiovascular disease, and impairment of central nervous system functions. Carbon monoxide concentrations can vary greatly over comparatively short distances. Relatively high concentrations are typically found near crowded intersections; along heavily used roadways carrying slow moving traffic; and at or near ground level. Even under the most severe meteorological and traffic conditions, high CO concentrations are limited to locations within a relatively short distance (i.e., up to 600 feet or 185 meters) of heavily traveled roadways. Overall, CO emissions are decreasing as a result of the Federal Motor Vehicle Control Program, which has mandated increasingly lower emission levels for vehicles manufactured since 1973.

Currently, CO levels in the SoCAB are in attainment for State and federal one-hour and eight-hour standards.

Nitrogen Dioxide (NO2)

Nitrogen gas, normally relatively inert (unreactive), comprises about 80 percent of the air. At high temperatures (i.e., in the combustion process) and under certain other conditions it can combine with oxygen to form several different gaseous compounds collectively called nitrogen oxides (NOx). NO is converted to NO_2, a red-brown pungent gas, in the atmosphere. Motor vehicle emissions are the main source of NOx in urban areas.

NO_2 is toxic to various animals and to humans. Its toxicity relates to its ability to form nitric acid with water in the eye, lung, mucus membrane, and skin. In animals, long-term exposure to NOx increases susceptibility to respiratory infections lowering their resistance to such diseases as pneumonia and influenza. Laboratory studies show susceptible humans, such as asthmatics, exposed to high concentrations of NO_2 can suffer lung irritation and, potentially, lung damage. Epidemiological studies have also shown associations between NO_2 concentrations and daily mortality from respiratory and cardiovascular causes and with hospital admissions for respiratory conditions.

NOx is primarily a combination of NO and NO_2. While the NAAQS and CAAQS only address NO_2, the total group of nitrogen oxides is of concern. NO and NO_2 are both precursors in the formation of O_3 and $PM_{2.5}$. Because of this and the fact that NO emissions largely convert to NO_2, NOx emissions are typically examined when assessing potential air quality impacts. Currently, NO_2 levels in the SoCAB are in attainment for State and federal standards.

Sulfur Dioxide (SO2)

Sulfur oxides (SOx) constitute a class of compounds of which SO_2 and sulfur trioxide (SO_3) are included. Ninety-five percent of pollution-related SOx emissions are in the form of SO_2. SOx emissions are typically examined when assessing potential air quality impacts of SO_2. Combustion of fossil fuels for generation of electric power is the primary contributor of SOx emissions. Industrial processes, such as nonferrous metal smelting, also contribute to SOx emissions. SOx is also formed during combustion of motor fuels. However, most of the sulfur has been removed from fuels, greatly reducing SOx emissions from vehicles.

SO_2 combines easily with water vapor, forming aerosols of sulfurous acid (H_2SO_3), a colorless, mildly corrosive liquid. This liquid may then combine with oxygen in the air, forming the even more irritating and corrosive sulfuric acid (H_2SO_4). Peak levels of SO_2 in the air can cause temporary breathing difficulty for people with asthma who are active outdoors. Longer-term exposures to high levels of SO_2 gas and particles cause respiratory illness and aggravate existing heart disease. SO_2 reacts with other chemicals in

the air to form tiny sulfate particles which are measured as $PM_{2.5}$. SO_2 is monitored at several sites in the SoCAB and is in attainment for the State and federal SO_2 standards.

Lead

Lead is a stable compound, which persists and accumulates both in the environment and in animals. In humans, it affects the blood-forming (or hematopoietic), the nervous, and the renal systems. In addition, lead has been shown to affect the normal functions of the reproductive, endocrine, hepatic, cardiovascular, immunological, and gastrointestinal systems, although there is significant individual variability in response to lead exposure. Since 1975, lead emissions have been in decline due in part to the introduction of catalyst-equipped vehicles and the decline in production of leaded gasoline. In general, an analysis of lead is limited to projects that emit significant quantities of the pollutant (e.g., lead smelters, battery manufacturers, and battery recyclers) and are not undertaken for transportation, residential, or commercial development projects. The SoCAB is in attainment for the State lead standard. The Los Angeles County portion of the SoCAB is classified nonattainment for the federal lead standard. Orange County is in attainment for the federal standard.

Visibility Reducing Particles

Visibility reducing particles consist of suspended particulate matter, which is a complex mixture of tiny particles that consist of dry solid fragments, solid cores with liquid coatings, and small droplets of liquid. These particles vary greatly in shape, size and chemical composition, and can be made up of many different materials such as metals, soot, soil, dust, and salt. The State standard is intended to limit the frequency and severity of visibility impairment due to regional haze. The SoCAB is "unclassified" for this pollutant. There are no federal standards for visibility reducing particulates.

Sulfates (SO_4)

Sulfates (SO_4) are the fully oxidized ionic form of sulfur. SO_4 occurs in combination with metal and/or hydrogen ions. In California, emissions of sulfur compounds occur primarily from the combustion of petroleum-derived fuels (e.g., gasoline and diesel fuel) that contain sulfur. This sulfur is oxidized to SO_2 during the combustion process and subsequently converted to sulfate compounds in the atmosphere. The conversion of SO_2 to SO_4 takes place comparatively rapidly and completely in California urban areas due to regional meteorological features.

The CARB's SO_4 standard is designed to prevent aggravation of respiratory symptoms. Effects of SO_4 exposure at levels above the standard include a decrease in respiratory function; aggravation of asthmatic symptoms; and an increased risk of cardiopulmonary disease. SO_4 is particularly effective in degrading visibility and, due to fact that it is usually acidic, can harm ecosystems and damage materials and property. The SoCAB is in attainment for the State SO_4 standard.

Hydrogen Sulfide (H_2S)

H_2S is a colorless gas with the odor of rotten eggs. It is formed during bacterial decomposition of sulfur-containing organic substances. It can also be present in sewer gas and some natural gas, and it can be emitted as the result of geothermal energy exploitation. Breathing H_2S at levels above the standard will result in exposure to a very disagreeable odor. In 1984, a CARB committee concluded that the ambient standard for H_2S is adequate to protect public health and to significantly reduce odor annoyance (CARB 2009). The SoCAB is "unclassified" for this pollutant.

Vinyl Chloride (Chloroethene)

Vinyl chloride (chloroethene), a chlorinated hydrocarbon, is a colorless gas with a mild, sweet odor. Most vinyl chloride is used to make polyvinyl chloride (PVC) plastic and vinyl products. Vinyl chloride has been detected near landfills, sewage plants, and hazardous waste sites, due to microbial breakdown of chlorinated solvents.

Short-term exposure to high levels of vinyl chloride in air causes central nervous system effects, such as dizziness, drowsiness, and headaches. Long-term exposure to vinyl chloride through inhalation and oral exposure causes liver damage. Cancer is a major concern from exposure to vinyl chloride via inhalation. Vinyl chloride exposure has been shown to increase the risk of angiosarcoma, a rare form of liver cancer in humans. Vinyl chloride is not routinely measured in the SoCAB. California has a vinyl chloride standard, but there is no corresponding federal standard.

Toxic Air Contaminants

In addition to criteria air pollutants, toxic air contaminants (TACs) emitted from mobile and stationary sources must be taken into consideration for projects proposing new sources of TAC emissions. TACs are those pollutants that are known or suspected to cause cancer or other serious health effects (e.g., reproductive effects or birth defects) or adverse environmental effects.

Installation and operation of stationary equipment that emit TACs generally require permits from the applicable air district, and a Health Risk Assessment (HRA) of TAC emissions may be a requirement under the permitting process. Land uses that would result in a long-term increase in mobile TAC emissions (e.g., distribution centers with diesel emissions from delivery trucks) also may require the preparation of an HRA. The HRA evaluates the risks posed to sensitive receptors (e.g., residents, schools, hospitals, and parks) in the vicinity of proposed TAC source(s) and must not exceed significance thresholds. Significance thresholds have been established in terms of cancer risk and hazard index.

Carcinogenic risks (i.e., cancer risks) are estimated as the incremental probability that an individual will develop cancer over a lifetime as a direct result of exposure to potential carcinogens. The estimated risk is expressed as a probability (e.g., 10 in 1 million). Hazard indices (HIs) express the potential for chemicals to result in non-cancer health impacts, and non-carcinogenic chemicals should not be present at levels expected to cause adverse health effects (i.e., HI greater than one). HIs are expressed using decimal notation (e.g., 0.001). If there is a reference exposure level of greater than 1, then impacts would be considered potentially significant. The National Contingency Plan (NCP, in accordance with *Code of Federal Regulations* [CFR], Title 40, Part 300) is commonly cited as the basis for target risk and hazard levels. According to the NCP, lifetime incremental cancer risks posed by a site should not exceed the range of between 1 in 1 million and 100 in 1 million.

Diesel Particulate Matter

Diesel particulate matter (DPM) is part of a complex mixture that makes up diesel exhaust emitted from a broad range of diesel engines, including on-road diesel engines of trucks, buses, and cars and the off-road road diesel engines that include locomotives, marine vessels, and heavy-duty equipment. Diesel exhaust is composed of gas and particles. The gas phase is composed of many urban hazardous air pollutants, such as acetaldehyde, benzene, and formaldehyde. The particle phase includes categories of fine and ultra-fine particles that, when inhaled, can cause immunological effects including lung inflammation and cellular changes in the lung. Human epidemiological studies demonstrate an association between diesel exhaust exposure and increased lung cancer rates in occupational settings. In 1998, the California Office of

Environmental Health Hazards (OEHHA) listed diesel PM as a TAC based on its potential to cause cancer and other adverse health effects. Under California regulatory guidelines, diesel exhaust, as a mixture, is identified as a known carcinogen.

Methodology

California Emission Estimator Model

Proposed Project emissions were calculated by using California Emissions Estimator Model (CalEEMod) version 2022.1.1.20 (CAPCOA 2023). CalEEMod is a computer program accepted by the SCAQMD that can be used to estimate criteria pollutant and GHG emissions associated with land development projects in California. CalEEMod has separate databases for specific Counties and air districts. The Orange County database was used for the Project. The model calculates emissions of CO, SO_2, PM_{10}, $PM_{2.5}$, and the O_3 precursors VOC and NOx. For this analysis, the results are expressed in pounds per day (lbs/day) and are compared with the SCAQMD mass daily thresholds to determine impact significance.

Specific inputs to CalEEMod include land uses and acreages. Construction input data include, but are not limited to, (1) the anticipated start and finish dates of each Project construction activity (e.g., grading, building, and paving); (2) inventories of construction equipment to be used during each Project activity; (3) areas to be excavated and graded for development; (4) volumes of materials to be imported to and exported from the Project site; (5) areas to be paved; and (6) areas to be painted. The input data and assumptions are discussed in Section 4.2.6 below and are shown in notes on the CalEEMod data in Attachment A. The CalEEMod has the capability to calculate reductions in construction emissions from the effects of dust control, off-road diesel-engine classifications, low-emission paints, and other selected measures.

Due to the lack of changes in operations between the existing dam and conditions under the dam improvements, operations phase emissions have been addressed qualitatively.

Local Concentrations of Criteria Pollutants from On-Site Sources

As part of the SCAQMD's environmental justice program, attention has focused on localized effects of air quality and the exposure of persons to criteria pollutants generated on a project site. The SCAQMD developed localized significance threshold (LST) methodology and mass rate look-up tables that public agencies can use to determine whether or not a project may generate significant adverse localized air quality impacts. In addition to the mass daily emissions for regional thresholds, the SCAQMD established California Environmental Quality Act (CEQA) significance thresholds for ambient air quality to address localized impacts. The localized impact analysis is based on the concentration of a pollutant at a receptor site. The concentration standard is either the same as the NAAQS or CAAQS or is based upon a health-based standard. It is possible for a pollutant to have a significant impact regionally and a less than significant impact locally or vice versa. It is also possible for both impacts (i.e., regional and local) to be significant or less than significant. The look-up tables allow the evaluation of impacts without the complex task of dispersion modeling.

The analysis is not performed for operations because there would be no substantial on-site stationary sources of criteria pollutants with the proposed Project. The LST methodology translates the concentration standards into emissions thresholds.

The LST methodology addresses NO_2, CO, PM_{10}, and $PM_{2.5}$ emissions. SO_2 and lead are not included because these pollutants are generated in very small amounts in development projects. Ozone is not

included because it is a secondary pollutant and local concentrations cannot be estimated from precursor emissions. For NO_2 and CO, the one-hour standards are used and receptors that could be exposed for one hour are considered. For PM_{10} and $PM_{2.5}$, the 24-hour standards are used and the receptors of interest are those where persons could be exposed for 24 hours, such as residences. Because emissions are based on the AAQS, exceedance of the LST represents a potential health impact. As noted above, even if a standard is exceeded, the potential impact can be confirmed or found to be less than significant by a more detailed analysis.

Sensitive Air Quality Receptors

Sensitive receptors include, but are not limited to, children, the elderly, persons with preexisting respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. These sensitive receptors include, but are not limited to, schools, athletic facilities, hospitals, residential areas, parks, and convalescent homes. The Project site is located in a remote area with the nearest residential land uses located approximately 9500 feet to the west. There are nearby parks which include Oak Canyon Park, Irvine Regional Park, and Irvine Lake Park.

Existing Air Quality Conditions

Air quality data for the Project site is represented by the Saddleback Valley monitoring station located in Lake Forest. Pollutants measured at the Saddleback Valley Monitoring Station include Carbon monoxide (CO), ozone (O_3), respirable particulate matter with a diameter of 10 microns or less (PM10), fine particulate matter with a diameter of 2.5 microns or less (PM2.5) and Nitrogen dioxide (NO_2). The monitoring data presented in Table 3, Air Quality Levels Measured at the Saddleback Valley Monitoring Station, were obtained from the CARB and SCAQMD. Federal and State air quality standards are presented with the number of times those standards were exceeded.

TABLE 3
AIR QUALITY LEVELS MEASURED AT THE
SADDLEBACK VALLEY MONITORING STATION

Pollutant	California Standard	National Standard	Year	Max. Level	Days State Standard Exceeded	Days National Standard Exceeded
O_3 (1 hour)	0.09 ppm	None	2019[a]	0.106	3	—
			2020[a]	0.171	20	—
			2021[a]	0.105	2	—
			2022[b]	0.110	1	—
O_3 (8 hour)	0.070 ppm	0.070 ppm	2019[a]	0.087	11	11
			2020[a]	0.122	32	32
			2021[a]	0.081	8	8
			2022[b]	0.074	5	5
CO (1 hour)	20 ppm	35 ppm	2019[a]	1.0	0	0
			2020[a]	1.7	0	0
			2021[a]	0.8	0	0
CO (8 hour)	9 ppm	9 ppm	2019[a]	0.8	0	0
			2020[a]	0.8	0	0
			2021[a]	1.0	0	0
PM10 (24 hour)	50 µg/m^3	150 µg/m^3	2019[a]	45	0	0
			2020[a]	53	0	1
			2021[a]	35	0	0
			2022[b]	31	0	0
PM10 (AAM)	20 µg/m^3	None	2019[a]	16.6	0	0
			2020[a]	16.8	0	0
			2021[a]	15.6	0	0
			2022[b]	12.7	0	0
NO_2 (1 Hour)	0.18 ppm	0.100 ppm	2019[a]	—	—	—
			2020[a]	—	—	—
			2021[a]	—	—	—
PM2.5 (24 Hour)	None	35 µg/m^3	2019[a]	20.8	—	0
			2020[a]	35	—	0
			2021[a]	28.7	—	0
			2022[b]	22.6	—	—

—: Data Not Reported or insufficient data available to determine the value; O_3: ozone; ppm: parts per million; PM10: respirable particulate matter with a diameter of 10 microns or less; µg/m^3: micrograms per cubic meter; AAM: Annual Arithmetic Mean; NO_2: nitrogen dioxide; PM2.5: fine particulate matter with a diameter of 2.5 microns or less. N/A indicates that there is no applicable standard.

[a] Data from the SCAQMD.

[b] Data from the CARB.

Source: CARB 2022. SCAQMD 2021.

The monitoring data shows that O_3 is the air pollutant of primary concern in the Project area. At the monitoring station, the State 1-hour O_3 standards was exceeded 2-20 days between 2020-2022 The state and federal O_3 8-hour standards were also exceeded 8-32 days for the same time period. O_3 is a secondary pollutant and is not directly emitted from a source; it occurs as the result of photochemical reactions from ozone precursors, which include VOCs and NO_2 and sunlight.

Air Quality Impact Analysis

Thresholds of Significance

The SCAQMD's Air Quality Analysis Handbook (CEQA Handbook) provides significance thresholds for both construction and operation of projects within the SCAQMD's jurisdictional boundaries (SCAQMD 2023). The SCAQMD recommends that projects be evaluated in terms of the quantitative thresholds established to assess both the regional and localized impacts of project-related air pollutant emissions. The County of Orange uses the current SCAQMD thresholds to determine whether a proposed project would have a significant impact. These SCAQMD thresholds are identified in Table 4. The following questions correspond to the questions in the Air Quality section of the Initial Study Checklist in Appendix G of the State CEQA Guidelines.

TABLE 4
SOUTH COAST AIR QUALITY MANAGEMENT
DISTRICT AIR QUALITY SIGNIFICANCE THRESHOLDS

Mass Daily Thresholds (lbs/day)		
Pollutant	**Construction**	**Operation**
VOC	75	55
NOx	100	55
CO	550	550
PM10	150	150
PM2.5	55	55
SOx	150	150
Lead	3	3

lbs/day: pounds per day; VOC: volatile organic compound; NOx: nitrogen oxides; CO: carbon monoxide; PM10: respirable particulate matter 10 microns or less in diameter; PM2.5: fine particulate matter 2.5 microns or less in diameter; SOx: sulfur oxides.

Source: SCAQMD 2023.

The following questions correspond to the questions in the Air Quality section of the Initial Study Checklist in Appendix G of the State CEQA Guidelines.

Question AQ-1 Would the Project conflict with or obstruct implementation of the applicable air quality plan?

Significant and Unavoidable Impact. The SCAQMD develops rules and regulations; establishes permitting requirements for stationary sources; inspects emissions sources; and enforces such measures through educational programs or fines, when necessary. It is directly responsible for reducing emissions from stationary (area and point), mobile, and indirect sources and has prepared an Air Quality

Management Plans (AQMP) that establishes a program of rules and regulations directed at attaining the NAAQS and CAAQS. As discussed previously, the current regional plan applicable to the Project is the SCAQMD's 2022 AQMP.

The main purpose of an AQMP is to bring an area into compliance with the requirements of federal and State air quality standards. For a project to be consistent with the AQMP, the pollutants emitted from the project should not (1) exceed the SCAQMD CEQA air quality significance thresholds or (2) conflict with or exceed the assumptions in the AQMP. As shown in Threshold AQ-2 below, pollutant emissions from the proposed Project would exceed the SCAQMD thresholds and would result in a significant impact even with the implementation of mitigation measures and SCAQMD regulatory requirements. The General Plan designates the Project site as Open Space (5) (County of Orange 2022); additionally, the Project site falls within an Open Space Reserve (OSR) overlay. The Open Space (5) designation indicates the current and near-term use of the land, while the OSR overlay identifies lands of scenic and natural attraction, and areas of ecological, cultural, historical and recreational significance that are permanently preserved as and restricted to open space and compatible uses (County of Orange 2022). The County's General Plan allows for the development of water resource areas within these designations; moreover, the proposed is consistent with existing uses at the Project site. As such, the Project is consistent with the Zoning and Land Use designation of the County's General Plan General Plans of cities and counties within the SoCAB are used to determine the regional emissions of the Basin, emissions related to the development of the Project site is therefore consistent with the growth expectations for the region. While the operations phase of the Project is consistent with the AQMP, construction emissions associated with the Project would exceed the SCAQMD's significance thresholds despite the implementation of MM AQ-1. As such, the Project's construction activities would conflict with the 2022 AQMP's goal of reducing criteria pollutant emissions. Consequently, the Project would in a temporary unavoidable significant impact related to consistency with the AQMP.

Question AQ-2 Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is in non-attainment under an applicable federal or State ambient air quality standard?

Significant and Unavoidable Impact. A project may have a significant impact where project-related emissions would exceed federal, State, or regional standards or thresholds, or where project-related emissions would substantially contribute to an existing or projected air quality violation. As identified in Table 2, Orange County is a nonattainment area for O_3, PM10, and PM2.5. The Project would generate PM10, PM2.5, NO_2, and O_3 precursors (NOx and VOC) during short-term construction and long-term operations. The SCAQMD has developed construction and operations thresholds to determine whether projects would considerably contribute toward a violation of ambient air quality standards. A project with daily emission rates below the SCAQMD's established air quality significance thresholds (shown previously in Table 4) would have a less than significant effect on regional air quality. Project emissions were estimated using the CalEEMod. CalEEMod is designed to model construction and operational emissions for land development projects and allows for the input of project- and county-specific information. CalEEMod modeling results can be found in Attachment A.

Construction Emissions

Air pollutant emissions would occur from construction equipment exhaust, grading; exhaust and particulate emissions from trucks hauling building materials to and from the Project site; from automobiles and light trucks driven to and from the Project site by construction workers; and VOCs from minor painting and asphalt paving operations. The proposed Project would comply with applicable SCAQMD rules and regulations, including Rule 403 for fugitive dust control and Rule 1113 for architectural coatings. Rule

403 measures include regular watering of active grading areas and unpaved roads, limiting vehicle speeds on unpaved surfaces, stabilizing stockpiled earth, and curtailing grading operations during high wind conditions. Watering of active grading areas is included in the CalEEMod emissions analysis and results in reduced PM10 and PM2.5 emissions. The emission reductions associated with compliance with Rule 403 have been included in the emissions calculations.

Regional Emissions Thresholds – Maximum Daily Regional Emissions

Project construction activities are those associated with the development of the Project components. Table 5, presents the estimated unmitigated maximum daily emissions during construction of the Project and compares the estimated emissions with the SCAQMD's daily regional emission thresholds.

TABLE 5
UNMITIGATED PROJECT MAXIMUM DAILY REGIONAL CONSTRUCTION EMISSIONS

Year	Emissions (lbs./day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Summer						
2024	5	49	43	<1	5	2
2025	241	468	573	1	68	35
2026	46	374	433	1	52	32
Winter						
2024	23	205	179	1	21	13
2025	55	472	501	1	56	35
2026	34	280	349	1	37	19
2027	7	59	56	<1	31	15
Maximum Project (2024-2027)	**241**	**472**	**573**	**1**	**68**	**35**
SCAQMD Thresholds (Table 4)	*75*	*100*	*550*	*150*	*150*	*55*
Exceeds SCAQMD Thresholds?	**Yes**	**Yes**	**Yes**	**No**	**No**	**No**

lbs./day: pounds per day; VOC: volatile organic compound; NOx: nitrogen oxides; CO: carbon monoxide; SOx: sulfur oxides; PM10: respirable particulate matter 10 microns or less in diameter; PM2.5: fine particulate matter 2.5 microns or less in diameter; SCAQMD: South Coast Air Quality Management District

Source: SCAQMD 2019 (thresholds); see Attachment B for CalEEMod model outputs.

As shown in Table 5, Project related construction emissions of VOC, NOx, and CO would exceed the SCAQMD's significance thresholds and would result in a significant impact to regional air quality prior to the implementation of mitigation measures.

The Project would implement **MM AQ-1** which requires use of Tier 4 offroad construction engines to minimize emissions during the development of the Project. Table 6 shows the emissions with the use of cleaner engines required under **MM AQ-1.**

TABLE 6
MITIGATED PROJECT MAXIMUM DAILY REGIONAL CONSTRUCTION EMISSIONS

Year	Emissions (lbs./day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Summer						
2024	2	22	69	<1	4	1
2025	221	147	749	1	61	25
2026	16	112	617	1	41	21
Winter						
2024	6	46	293	1	15	7
2025	19	137	733	1	44	22
2026	14	87	560	1	35	17
2027	2	9	76	<1	29	13
Maximum Project (2024-2027)	**221**	**147**	**749**	**1**	**61**	**25**
SCAQMD Thresholds (Table 4)	*75*	*100*	*550*	*150*	*150*	*55*
Exceeds SCAQMD Thresholds?	**Yes**	**Yes**	**Yes**	**No**	**No**	**No**

lbs./day: pounds per day; VOC: volatile organic compound; NOx: nitrogen oxides; CO: carbon monoxide; SOx: sulfur oxides; PM10: respirable particulate matter 10 microns or less in diameter; PM2.5: fine particulate matter 2.5 microns or less in diameter; SCAQMD: South Coast Air Quality Management District

Source: SCAQMD 2019 (thresholds); see Attachment B for CalEEMod model outputs.

As shown in Table 6, after implementation of **MM AQ-1**, Project construction would continue to exceed the established thresholds for VOC, CO, and NOx for Maximum Daily Regional Construction Emissions. Additionally, as shown in Table 6, implementation of **MM AQ-**1 requiring use of Tier 4 offroad engine standards may result in higher CO emissions than for equipment with other engine standards. While CO emissions are higher with implementation of **MM AQ-1**, VOCs and NOx would be reduced. VOCs and NOx contribute to ozone (smog) which has more health/environmental implications than CO; additionally, the region is in a state of attainment for CO pursuant to the ambient air quality standards. Therefore **MM AQ-1** would reduce overall impacts associated with this threshold. Because the Project would exceed the SCAQMD's construction emissions thresholds despite implementation of mitigation, construction emissions would be cumulatively considerable, and the impact would be significant and unavoidable.

Operational Emissions

The Project involves improvements to existing dam infrastructure and would not result in substantial increases in air pollutant sources such as vehicular or energy consumption. Existing operations related to dam inspection and maintenance activities would be comparable to that which would occur under the Proposed Project; no new vehicle trips associated with regular maintenance and operations beyond existing conditions are assumed. As such, air pollutant emissions would likewise be essentially the same and due to the minimal amount of vehicular and energy usage, the Project's operational phase would not result in an exceedance of the SCAQMD's operations phase thresholds and would not result in a significant impact related to operations phase emissions contributions to regional air quality.

Cumulative Impacts

The SCAQMD, in their White Paper on Regulatory Options for Addressing Cumulative Impacts from Air Pollution Emissions (presented to the Board on September 5, 2003), identifies that impacts that are less than significant on a Project level are also considered to be less than significant on a cumulative basis. The AQMD uses the same significance thresholds for project-specific and cumulative impacts analyzed in an Environmental Assessment or Environmental Impact Report, except for the Hazard Index for toxic air contaminant emissions (SCAQMD 2003). Any projects that are found to result in less than significant impacts on a project level are not considered to be cumulatively considerable and consequently would not result in a considerable contribution to cumulative impacts. After implementation of **MM AQ-1**, Project construction would result in significant construction-related regional air quality impacts, as quantified above in Tables 5 and 6 respectively. Since the SCAQMD recommends that a project's potential contribution to cumulative impacts be assessed utilizing the same significance criteria as those for project-specific impacts, the Project's unavoidable significant air quality impacts related to construction would likewise be cumulatively considerable.

Question AQ-3 Would the Project result in exposure of sensitive receptors to substantial pollutant concentrations?

Less than Significant Impact. Exposure of sensitive receptors is addressed for the following situations: CO hotspots; criteria pollutants from on-site construction; and TACs from on-site construction.

Carbon Monoxide Hotspot

A CO hotspot is an area of elevated CO concentrations that is caused by severe vehicle congestion on major roadways, typically near intersections. If a project substantially increases average delay at signalized intersections that are operating at Level of Service (LOS) E or F or causes an intersection that would operate at LOS D or better without the Project to operate at LOS E or F with the Project, there is a potential for a CO hotspot. As such, a CO hotspot is an area of localized CO pollution caused by severe vehicle congestion on major roadways, typically near intersections. The Project would not result in a substantial change in vehicle trips associated with the operation of the dam infrastructure. Existing operations of the dam involves minimal amounts of vehicle trips associated with maintenance and inspection operations which does not substantially result in local traffic congestion. Therefore, the proposed Project would not increase congestion or result in a significant impact related to CO hotspots.

Criteria Pollutants from On-Site Construction

In addition to the mass daily emissions thresholds, the SCAQMD has developed localized significance thresholds (LSTs) to evaluate short-term localized impacts to nearby sensitive receptors from on-site emissions of NO_2, CO, PM_{10}, and $PM_{2.5}$. LSTs represent the maximum emissions that can be generated at a project site without expecting to cause or substantially contribute to an exceedance of the most stringent national or state ambient air quality standards. LSTs are based on the distance to the nearest sensitive receptor and the ambient concentrations of pollutants within a project's source receptor area (SRA). The SCAQMD provides LST lookup tables for one-, two-, and five-acre projects emitting CO, NOX, PM2.5, and/or PM10. The assessment of localized air quality impacts was developed to provide a conservative estimate of the level of Project-generated air pollutants that have the potential to exceed the NAAQS or CAAQS, which could consequently result in adverse health impacts. Exceedance of these air quality standards does not describe the prevalence, magnitude, or specific health effects, but rather assesses the potential for a Project-related health effect to occur.

For the purposes of an LST analysis, the SCAQMD considers receptors where it is possible that an individual could remain for 1 hour for NO_2 and CO exposure and 24 hours for PM_{10} and $PM_{2.5}$ exposure. The LSTs utilized for this analysis account for the Project site's location within SRA 19, Saddleback Valley and receptors located at 500 meters (1,640 feet)[4] of the Project site. The nearest residential uses along Jamboree Road are located approximately 2,596 meters (9,500 feet) to the west of the Project site and use of the 500-meter separation distance provides a conservative analysis of potential impacts.

The LST methodology is recommended for projects that have five acres or less of site disturbance per day. Per SCAQMD guidance, site disturbance is calculated by the number of acres a particular piece of equipment would likely disturb per day. The disturbance values provided by the SCAQMD to determine site disturbance are provided below in Table 4.2-5 SCAQMD Disturbance Area by Equipment Type.

TABLE 4.2 5
SCAQMD DISTURBANCE AREA BY EQUIPMENT TYPE

Equipment Type	Acres/8hr-day
Crawler Tractors	*0.5*
Graders	*0.5*
Rubber Tired Dozers	*0.5*
Scrapers	*1*

The Project would actively disturb a maximum of approximately 4 acres during the peak day (Roadway Excavation and Cleanup) of all construction phases. Therefore, the LST thresholds for 4 acres were used for the construction LST analysis. The emissions limits in the lookup tables are based on the SCAQMD's Ambient Air Quality Standards (SCAQMD 2016). As stated above, the Project site is located within SRA 19, Saddleback Valley and the nearest receptors are located along Jamboree Road, approximately 2,596 meters (9,500 feet) to the west of the Project site. The LSTs for receptors located at 500 meters (1,640 feet)[5] of the Project site were utilized and provides a conservative analysis of potential impacts.

Table 4.2-7, Construction-Phase Localized Significance Threshold Emissions shows the maximum daily on-site emissions for construction activities compared with the SCAQMD LST screening thresholds. The thresholds shown are from the lookup tables for a site disturbance area of 4 acres. The Project's maximum daily on-site emissions would occur during the roadway excavation and site preparation phase for all pollutants. As shown in Table 4.2-7, localized unmitigated emissions for all analyzed criteria pollutants would be less than the applicable SCAMD LSTs.

[4] The SCAQMD recommends that, when sensitive receptors are located nearer than 25 meters (82 feet) from the Project site, the minimum 25-meter/82-foot distance threshold should be used.

TABLE 4.2 7
UNMITIGATED CONSTRUCTION-PHASE
LOCALIZED SIGNIFICANCE THRESHOLD EMISSIONS

Emissions and Thresholds	Emissions (lbs/day)			
	NO_x	CO	PM_{10}	$PM_{2.5}$
Project maximum daily on-site emissions	148	147	37	19
Localized Significance Threshold	263	9,820	142	85
Exceed threshold?	No	No	No	No

lbs/day: pounds per day; NO_x: nitrogen oxides; CO: carbon monoxide; PM_{10}: respirable particulate matter 10 microns or less in diameter; $PM_{2.5}$: fine particulate matter 2.5 microns or less in diameter.

Note: Data is for SCAQMD Source Receptor Area 19, Saddleback Valley.

Source: SCAQMD 2009 (thresholds); see Appendix B for CalEEMod model outputs.

Mitigated localized construction emissions are presented in Table 4.2-8 and are likewise below the applicable SCAQMD LSTs.

TABLE 4.2 8
MITIGATED CONSTRUCTION-PHASE
LOCALIZED SIGNIFICANCE THRESHOLD EMISSIONS

Emissions and Thresholds	Emissions (lbs/day)			
	NO_x	CO	PM_{10}	$PM_{2.5}$
Project maximum daily on-site emissions	20	152	34	17
Localized Significance Threshold	263	9,820	142	85
Exceed threshold?	No	No	No	No

lbs/day: pounds per day; NO_x: nitrogen oxides; CO: carbon monoxide; PM_{10}: respirable particulate matter 10 microns or less in diameter; $PM_{2.5}$: fine particulate matter 2.5 microns or less in diameter.

Note: Data is for SCAQMD Source Receptor Area 19, Saddleback Valley.

Source: SCAQMD 2009 (thresholds); see Appendix B for CalEEMod model outputs.

Toxic Air Contaminant Emissions from On-Site Construction

Construction activities would result in short-term, Project-generated emissions of diesel particulate matter (DPM) from the exhaust of off-road, heavy-duty diesel equipment used for site preparation (e.g., excavation and grading); paving; building construction; and other miscellaneous activities. CARB identified DPM as a TAC in 1998. The dose to which receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance or substances in the environment and the duration of exposure to the substance. Thus, the risks estimated for a maximally exposed individual are higher if a fixed exposure occurs over a longer time period. According to the Office of Environmental Health Hazard Assessment, health risk assessments—which determine the exposure of sensitive receptors to TAC emissions—should be based on a 30-year or 70-year exposure period; however, such assessments should be limited to the period/duration of activities associated with the Project.

Health risks associated with DPM are due to substantial long-term exposure to this pollutant. While there are park uses nearby, exposure to construction related DPM would occur to park visitors on a short-term

(1-7 days) and intermittent basis as compared to the same individuals at residential uses being exposed on a 24-hour basis for a period of 30 or 70-years. DPM does not have any identified health effects associated with short-term acute exposures and is evaluated relative to long-term chronic and carcinogenic exposures. As such, park uses will not be substantially affected by DPM emitted during construction activities due to the relative brevity that individual park visitors are exposed when they are at the park and the infrequency of attendance of an individual park visitor. As such, park visitors are not anticipated to be significantly affected by TACs related to construction activities. The nearest residential uses are located approximately 1.8 miles away from construction activities. This very substantial distance would disperse and dilute air pollutants generated at the Project site. As indicated in CARB's Air Quality And Land Use Handbook: A Community Health Perspective, decreases in D PM emissions occur substantially within the first 300 feet and stabilize to background levels at approximately 500 feet. Considering that the nearest residential uses are approximately 9,500 feet away, Project related construction DPM emissions would have a negligible impact on health risks at the nearest residential uses. In addition, **MM AQ-1** would result in the use of Tier 4 offroad engines which would lead to reductions in exhaust particulate emissions. As such, construction emissions of TACs would not expose sensitive receptors to substantial emissions of TACs. The impact would be less than significant.

Question AQ-4 Would the Project result in other emissions (such as those leading to odors) affecting a substantial number of people?

Less than Significant Impact. According to the SCAQMD's *CEQA Air Quality Handbook,* land uses associated with odor complaints typically include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding (SCAQMD 1993). The Project does not propose any of these land uses and would not otherwise produce objectionable long-term operational odors. In addition, the SCAQMD has not identified dam/reservoir projects as sources of odors, which implies that dam/reservoir projects are not common sources of odor. Nevertheless, the dewatering of the reservoir for Project construction may result in the exposure organic matter, including vegetation and remains of fish. All residual organic matter would be removed from the reservoir by construction crews, in accordance with **PDF AQ-1**. Furthermore, the substantial distance between the Project site and the nearest sensitive receptors and the presence of SR-241 and SR-261 would further minimize potential odors emanating from the reservoir once the reservoir has been dewatered. During Project operations, the Project consists of dam infrastructure and would not result in any substantial onsite emissions that would result in a public nuisance.

Short-term construction equipment and activities would generate odors, such as diesel exhaust emissions from construction equipment and paving activities. There may be situations where construction activity odors would have an olfactory presence at nearby park uses, but these odors would not rise to the magnitude of a public nuisance. The odors would be temporary and would dissipate rapidly from the source with an increase in distance. The Project use is also regulated from nuisance odors or other objectionable emissions by SCAQMD Rule 402. Rule 402 prohibits discharge from any source of air contaminants or other material, which would cause injury, detriment, nuisance, or annoyance to people or the public. As such, all Project-related odors are construction related and short term in nature; no long-term operational odors would result. Consequently, the proposed Project would have less than significant impact in regard to other emissions, and no mitigation is required.

Mitigation Measures

The proposed Project would result in significant impacts related to exceedance of the SCAQMD's construction phase emission thresholds and consequently result in significant impacts to Air Quality. The following mitigation measures are necessary to minimize Project related impacts.

AQ-1 The Project's plans and specifications shall include the following measures to minimize nitrogen oxide (NOx) and volatile organic compound (VOC) emissions during construction:

- All off-road diesel-powered construction equipment greater than 50 horsepower shall meet U.S. Environmental Protection Agency (USEPA) Tier 4 Final emission standards to the extent that the equipment is available. In addition, all construction equipment shall be outfitted with Best Available Control Technology (BACT) devices certified by the California Air Resources Board (CARB). If Tier 4 Final equipment is not available, the Project Applicant/Developer shall provide the County with documentation showing the reasons for non-availability.
- Require the use of 2010 and newer diesel haul trucks (e.g., material delivery trucks and soil import/export). If the Project Applicant/Developer determines that 2010 model year or newer diesel trucks cannot be obtained, trucks that meet USEPA 2007 model year NOx emissions requirements shall be required. If 2010 model year or newer diesel trucks are not available, the Project Applicant/Developer shall provide the County with documentation showing the reasons for non-availability.
- Construction contractors shall ensure construction equipment is properly serviced and maintained to the manufacturer's standards.
- Construction contractors shall limit non-essential idling of construction equipment to no more than five consecutive minutes.

Level of Significance After Mitigation

Construction emissions from the Project would exceed the SCAQMD's regional construction emissions thresholds and would result in a significant and unavoidable impact regional air quality despite the application of mitigation measures. Localized construction emissions would be less than significant due to the large distance between the Project's construction activities and the nearest sensitive land uses. Because construction emissions would exceed the SCAQMD's regional thresholds, it would also not be consistent with the goals of the AQMP and would result in a significant impact relative to consistency with local air quality plans.

Long-term operational emissions, and exposure of sensitive receptors to long-term criteria pollutant and TAC emissions from stationary or mobile sources would be less than significant due to the lack of additional emission sources attributable to the Project. The Project would also not exceed the growth assumptions in the AQMP and would not result in impacts related to consistent with local air quality plans for the operations phase. The proposed Project would not increase congestion or result in a significant impact related to CO hotspots.

GREENHOUSE GAS EMISSIONS ANALYSIS

Relevant elements of the proposed Project related to the analysis of potential greenhouse gas (GHG) emissions impacts include construction and operations phase activities which emit GHG emissions. Construction activities which emit GHGs are related to fuel combustion from offroad construction equipment as well as worker and truck trips. The operations phase of the Project would involve GHG emissions from energy usage and vehicular trips. California has adopted several initiatives to reduce the State's contribution to global climate change. This information is incorporated by reference into this report, and information that is relevant to the analysis of GHG emissions resulting from the proposed Project is summarized in this section.

General Environmental Effects of Global Climate Change

Executive Order (EO) S-3-05 mandates the preparation of biennial science assessment reports on climate change impacts and adaptation options for California. EO S-13-08 directs the California Natural Resources Agency (CNRA) to develop a State Climate Adaptation Strategy and to provide State land use planning guidance related to sea level rise and other climate change impacts. Current reports resulting from these directed actions are the *Climate Action Team Report to the Governor and Legislature* and the *California Climate Adaptation Strategy* (CalEPA 2010; CNRA 2009). These studies report that global warming in California is anticipated to impact resources, including, but not limited to, those discussed below.

- **Public Health.** Many Californians currently experience the worst air quality in the nation, and climate change is expected to make matters worse. Higher temperatures would increase the frequency, duration, and intensity of conditions conducive to air pollution formation. If global background O_3 levels increase as predicted under some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by more frequent wildfires, which emit fine particulate matter that can travel long distances. Rising temperatures and more frequent heat waves would increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress. Climate change may also increase asthma rates and the spread of infectious diseases and their vectors, as well as challenge food and water supplies. Children, the elderly, people with chronic heart or lung disease, outdoor workers, people who exercise outdoors, and the economically disadvantaged would be particularly vulnerable to these changes. In addition, more frequent extreme weather events could also result in increased injuries and deaths from these phenomena.
- **Energy.** Increasing mean temperature and more frequent heat waves will drive up demand for cooling in summer; this new energy demand will only be partially offset by decreased demand for heating in winter. Hydropower, which currently provides 15 percent of in-state generation, would be threatened by declining snowpack, which serves as a natural reservoir for hydropower generation in the spring and summer. Winter storms, earlier snowmelt, and greater runoff may combine to cause flooding, which could, in turn, damage transmission lines and cause power outages.
- **Water Resources.** Rising temperatures, less precipitation, and more precipitation falling as rain instead of snow could severely diminish snowpack. Because the Sierra Nevada snowpack provides most of California's available water, this potential loss would increase the risk of summer water shortages and would hamper water distribution and hydropower generation. The diminished snowpack would also nearly eliminate all skiing and other snow-related recreation. Rising sea levels would push salt water into California's estuaries, wetlands, and groundwater

aquifers, threatening the water quality and reliability in the Sacramento/San Joaquin River Delta—a major California fresh water supply. Extreme precipitation and flooding could also damage water quality by creating sudden increases in runoff. Moreover, warming would increase evapotranspiration rates from plants, soil, and open water surfaces, which would result in greater demand for irrigation. Overall, climate change would reduce California's water supplies even as its growing population requires additional resources.

- **Sea Level and Flooding.** Sea level at California's coasts is expected to rise by 11 to 18 inches above 2000 levels by 2050 and by 23 to 55 inches by 2100. If realized, these increases would create more frequent and higher storm surges; would erode some coastal areas; and would increase pressure on existing levees. These increases would create a greater risk of flooding in previously untouched inland areas. Consequently, continued development in vulnerable coastal areas would put more people and infrastructure at risk.

- **Agriculture.** Although higher CO_2 levels can stimulate plant production and increase plant water-use efficiency, in the long-term, climate change would reduce the quantity and quality of agricultural products Statewide. As temperatures rise, farmers will face greater water demand for crops and a less reliable water supply, as well as increased competition from urban water users. Sea level rise may cause saltwater intrusion in the Delta region, making it difficult to raise certain crops. Rising temperatures will likely aggravate O_3 pollution, interfering with plant growth and making plants more susceptible to disease and pests. In addition, warming would reduce the number of colder hours needed for fruit and nut production; would shift pest and weed ranges; would alter crop-pollinator timing; and would increase the frequency of droughts, heat waves, and floods. Higher average temperatures would also increase mortality and decrease productivity in livestock.

- **Forestry.** California timber production has declined over the past few decades due, in part, to warming and increased wildfires. While further warming may increase production for some species in some locations, climate change is expected to reduce overall forest growth. Increasing average temperatures and drought frequency would result in more wildfires and greater burned areas, while less frequent and more intense rainfall would increase soil erosion and landslides. Higher temperatures and less water would force many tree species to shift their ranges; those that run out of livable habitat may die out. Pests, diseases, and invasive species may also colonize new areas, further challenging forest health and biodiversity.

- **Ecosystems.** Rising average temperatures would subject plants and animals to greater thermal stress, causing some species to adapt or shift their ranges, while others may face extinction. Invasive species may also shift their ranges, threatening native species. Changing temperatures would alter the timing of plant flowering and insect emergence, damaging species' abilities to reproduce. Changing precipitation patterns would impact aquatic and riparian ecosystems by reducing snow pack, stream flow, and groundwater, while increasing the frequency of droughts, floods, and wildfires. As sea levels rise, some coastal habitats may be permanently flooded or eroded, and saltwater intrusion into freshwater resources may threaten terrestrial species. Changes in ocean circulation and temperature, ocean acidification, and increased runoff and sedimentation would threaten pelagic species. In sum, continued global warming would alter natural ecosystems and threaten California's biological diversity.

Existing Greenhouse Gas Emissions Conditions

GHGs are global pollutants and are therefore unlike criteria air pollutants such as O_3, particulate matter (PM10 and PM2.5), and TACs, which are pollutants of regional and local concern. While pollutants with

localized air quality effects have relatively short atmospheric lifetimes (generally on the order of a few days), GHGs have relatively long atmospheric lifetimes, ranging from one year to several thousand years. Long atmospheric lifetimes allow for GHGs to disperse around the globe. Therefore, GHG effects are global, as opposed to the local and/or regional air quality effects of criteria air pollutant and TAC emissions.

Regulatory Background

Significant changes in global climate patterns have been associated with global warming, which is an average increase in the temperature of the atmosphere near the Earth's surface; this is attributed to an accumulation of GHG emissions in the atmosphere. GHGs trap heat in the atmosphere which, in turn, increases the Earth's surface temperature. Some GHGs occur naturally and are emitted to the atmosphere through natural processes, while others are created and emitted solely through human activities.

On June 1, 2005, Governor Arnold Schwarzenegger signed Executive Order S-3-05, which calls for a reduction in GHG emissions to the year 2000 level by 2010, to year 1990 levels by 2020, and to 80 percent below 1990 levels by 2050.

The principal overall State plan and policy adopted for the purpose of reducing GHG emissions is Assembly Bill (AB) 32 (California Global Warming Solutions Act of 2006). AB 32 establishes regulatory, reporting, and market mechanisms to achieve quantifiable reductions in GHG emissions and establishes a cap on statewide GHG emissions. AB 32 recognizes that California is the source of substantial amounts of GHG emissions. The statute states the following:

> Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious diseases, asthma, and other human health-related problems.

In order to avert these consequences, AB 32 establishes a State goal of reducing GHG emissions to 1990 levels by the year 2020, codifying the Executive Order S-3-05 goal.

CARB approved a *Climate Change Scoping Plan* as required by AB 32 in 2008; this plan is required to be updated every five years. The *Climate Change Scoping Plan* proposes a "comprehensive set of actions designed to reduce overall carbon GHG emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, create new jobs, and enhance public health" (CARB 2008). The *Climate Change Scoping Plan* has a range of GHG-reduction actions which include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, market-based mechanisms such as a cap-and-trade system, and an AB 32 implementation regulation to fund the program. On February 10, 2014, CARB released the Draft Proposed First Update to the *Climate Change Scoping Plan* (CARB 2014). The board approved the final *First Update to the Climate Change Scoping Plan* on May 22, 2014. The first update describes California's progress towards AB 32 goals, stating that "California is on track to meet the near-term 2020 greenhouse gas limit and is well positioned to maintain and continue reductions beyond 2020 as required by AB 32" (CARB 2014). The latest update occurred in January 2017 and incorporates the 40 percent reduction to 1990 emissions levels by 2030.

California Executive Order B-30-15 (April 29, 2015) set an "interim" statewide emission target to reduce GHG emissions to 40 percent below 1990 levels by 2030, and directed State agencies with jurisdiction over GHG emissions to implement measures pursuant to statutory authority to achieve this 2030 target and the 2050 target of 80 percent below 1990 levels.

On September 8, 2016, the Governor signed Senate Bill 32 (SB 32) to codify the GHG reduction goals of EO B-30-15, requiring the State to reduce GHG emissions by 40 percent below 1990 levels by 2030 (Health and Safety Code Section 38566). This goal is expected to keep the State on track to meeting the goal set by EO S-3-05 of reducing GHG emissions by 80 percent below 1990 levels by 2050 (California Legislative Information 2017a). SB 32's findings state that CARB will "achieve the state's more stringent greenhouse gas emission reductions in a manner that benefits the state's most disadvantaged communities and is transparent and accountable to the public and the Legislature."

AB 197 was signed at the same time and will make sure that the SB 32 goals are met by requiring CARB to provide annual reports of GHGs, criteria pollutants, and TACs by facility, City and subcounty level, and sector for stationary sources and at the County level for mobile sources. It also requires the CARB to prioritize specified emission reduction rules and regulations and to identify specified information for emission reduction measures (e.g., alternative compliance mechanism, market-based compliance mechanism, and potential monetary and nonmonetary incentive) when updating the Scoping Plan (California Legislative Information 2017b).

On April 29, 2015, Governor Brown signed Executive Order (EO) B-30-15, which orders "A new interim statewide greenhouse gas emission reduction target to reduce greenhouse gas emissions to 40 percent below 1990 levels by 2030 is established in order to ensure California meets its target of reducing greenhouse gas emissions to 80 percent below 1990 levels by 2050" (COOG 2015). Five key goals for reducing GHG emissions through 2030 include (1) increasing renewable electricity to 50 percent; (2) doubling the energy efficiency savings achieved in existing buildings and making heating fuels cleaner; (3) reducing petroleum use in cars and trucks by up to 50 percent; (4) reducing emissions of short-lived climate pollutants; and (5) managing farms, rangelands, forests and wetlands to increasingly store carbon. EO B-30-15 also directs CARB to update the *Climate Change Scoping Plan* to express the 2030 target in terms of million metric tons of carbon dioxide equivalent.

Senate Bill (SB) 350, signed October 7, 2015, is the Clean Energy and Pollution Reduction Act of 2015. SB 350 is the implementation of some of the goals of EO B-30-15. The objectives of SB 350 are as follows (California Legislative Information 2015):

1. To increase from 33 percent to 50 percent, the procurement of our electricity from renewable sources.
2. To double the energy efficiency savings in electricity and natural gas final end uses of retail customers through energy efficiency and conservation.

The text of SB 350 sets a December 31, 2030, target for 50 percent of electricity to be generated from renewable sources.

The Sustainable Communities and Climate Protection Act of 2008, Senate Bill (SB) 375, established a process to coordinate land use planning, regional transportation plans, and funding priorities in order to help California meet the GHG reduction goals established in AB 32. SB 375 required SCAG to incorporate a "sustainable communities strategy" (SCS) into its regional transportation plans (RTPs) that will achieve GHG emission reduction targets though several measures, including land use decisions.

SCAG's SCS is included in the SCAG 2020–2045 RTP/SCS (SCAG 2020). The goals and policies of the RTP/SCS that reduce vehicle miles traveled (VMT) focus on transportation and land use planning that include building infill projects; locating residents closer to where they work and play; and designing communities so there is access to high quality transit service.

COUNTY OF ORANGE

The County of Orange's General Plan does not specifically references GHGs, however the following sections of the General Plan is relevant to the effects of climate change as it relates to Project.

General Plan

The County of Orange's General Plan provides the vision of the future and framework for development in the County. The General Plan is comprised of various elements or topical sections that cover different aspects of the County. The two Element that are most relevant to the Project are the Public Services & Facilities Element and Resources Element.

Public Services & Facilities Element

The Public Services and Facilities Element focuses on those publicly managed services and facilities which have a direct influence on the distribution and intensity of development that can be accommodated through the utilization of existing technologies and assumptions that are used to determine adequate service levels. These services include flood control, waste management, water and wastewater, transportation, and community services (fire protection, library, sheriff patrol, local special services districts and public school facilities).

Goals, Objectives, and Policies

Water System

Goal 1	Encourage the planning and development of a water conveyance and distribution system to meet the County's future demand.
Objective 1.1	To achieve desired water system service levels through the coordination of land use and water system planning.
Objective 1.2	To implement state, regional, and local facility plans for water delivery to Orange County
Objective 1.3	To increase storage and delivery capacity for water supplies in Orange County.
Policy 1	System Capacity and Phasing – To ensure the adequacy of water system capacity and phasing, in consultation with the service providing agency(ies), in order to serve existing and future development as defined by the General Plan.
Policy 2	Water Delivery System – To support water facility planning and development efforts for Orange County water supplies conducted by local and regional water agencies.
Policy 3	Intergovernmental Coordination – To actively encourage opportunities for increased coordination between the County and the water agencies through cooperative water facility planning and implementation efforts.

Water Delivery System

Goal 1	To support water facility planning and development efforts for Orange County water supplies conducted by local and regional water agencies.
Policy 1	Intergovernmental Coordination – To actively encourage opportunities for increased coordination between the County and the water agencies through cooperative water facility planning and implementation efforts.

Resources Element

The Resources Element, one of nine elements of the General Plan, contains official County policies on the conservation and management of resources. The Resources Element establishes a strategy for the development, management, preservation, and conservation of resources that are necessary to meet Orange County's existing and future demands. Aspects of this Element that relate to the Project are local water availability and water quality. The Water Resources Component of the Element describes the need to manage local water resources to meet the County's needs. The following have been established in the Water Resources Component.

Goals, Objectives and Policies

Water Resources Component

The use, supply, and conservation of water are critical issues in Orange County. Since almost every urban activity is dependent on water to some extent, it is in the best interests of the general public that the County's water resources are properly planned and managed.

Goal 1	Ensure an adequate dependable supply of water of acceptable quality for all reasonable uses.
Objective 1.1	To maintain the adequacy and dependability of imported water supplies.
Objective 1.2	To achieve a reduction in per capita water consumption by the year 2020.
Objective 1.3	To reduce dependence on imported water supplies through both conservation and local water resource development.
Policy 1	Water Supply – To ensure the adequacy of water supply necessary to serve existing and future development as defined by the General Plan.
Policy 2	Conservation – To reduce per capita and total water consumption through conservation and reclamation programs and the support of new technologies.
Policy 3	Groundwater Sources – To support groundwater management efforts that are conducted by County water agencies.
Policy 4	Shortage Planning – To ensure that Orange County will not be severely impaired by any potential future water shortages.
Policy 5	Water Quality – Protect and improve water quality through continued management, enforcement, and reporting requirements. Encourage an integrated water resources approach for stormwater management that considers water supply, water quality, flood control, open space, and native habitats.

Promote coordination between the County, cities, and other stakeholders in the identification and implementation of watershed protection and Low Impact Development (LID) principles.

Consider implementation of LID principles to conserve natural features (trees, wetlands, streams, etc.), hydrology, drainage patterns, topography, and soils.

Encourage the creation, restoration, and preservation of riparian corridors, wetlands, and buffer zones. Continue to educate the public about protecting water resources.

Additional water quality policies are also provided in the Land Use Element.

Policy 6 Intergovernmental Coordination – To encourage and support a cooperative effort among all agencies towards the resolution of problems and the utilization of opportunities in the planning management and protection of water resources, including water quality.

Greenhouse Gas Emissions Impact Analysis

Climate change refers to any significant change in measures of climate (e.g., average temperature, precipitation, or wind patterns) over a period of time. Climate change may result from natural factors, natural processes, and human activities that change the composition of the atmosphere and alter the surface and features of the land. Significant changes in global climate patterns have recently been associated with global warming, which is an average increase in the temperature of the atmosphere near the Earth's surface; this is attributed to an accumulation of GHG emissions in the atmosphere. GHGs trap heat in the atmosphere which, in turn, increases the Earth's surface temperature. Some GHGs occur naturally and are emitted to the atmosphere through natural processes, while others are created and emitted solely through human activities. The emissions of GHGs through fossil fuel combustion in conjunction with other human activities are associated with global warming.

GHGs, as defined under California's Assembly Bill (AB) 32, include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). General discussions on climate change often include water vapor, atmospheric ozone, and aerosols in the GHG category. Water vapor and atmospheric ozone are not gases that are formed directly in the construction or operation of development projects, nor can they be controlled in these projects. Aerosols are not gases. While these elements have a role in climate change, they are not considered by either regulatory bodies, such as CARB, or climate change groups, such as the California Climate Action Registry, as gases to be reported or analyzed for control. Therefore, no further discussion of water vapor, atmospheric ozone, or aerosols is provided.

Thresholds of Significance

On December 5, 2008, the SCAQMD Governing Board adopted its staff proposal for an interim CEQA GHG significance threshold of 10,000 metric tons of CO_2 equivalent per year ($MTCO_2e$/year) for industrial projects where the SCAQMD is the lead agency. In September 2010, the Working Group proposed extending the 10,000 $MTCO_2e$/year screening threshold currently applicable to industrial projects where the SCAQMD is the lead agency, described above, to other lead agency industrial projects. Because the Project's land use is closest to the application of industrial uses as compared to residential and commercial uses, the significance threshold developed for industrial uses will be used for the evaluation of potential GHG impacts.

A. Methodology

Project related GHG emissions were calculated by using CalEEMod. For this analysis, the results are expressed in metric tonnes of CO2 equivalent per year ($MTCO_2e$/yr). Please see the methodology discussion in the Air Quality analysis of this report, for discussion of the CalEEMod inputs, adjustments, outputs, and other characteristics for construction-related and operational emissions.

Greenhouse Gas Emissions Analysis

The following questions correspond to the questions in the GHG Emissions section of the Initial Study Checklist in Appendix G of the State CEQA Guidelines.

Question GHG-1 Would the Project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than Significant Impact. Based on the proposed construction activities described above, the principal source of construction GHG emissions would be internal combustion engines of construction equipment, on-road construction vehicles, and workers' commuting vehicles. GHG emissions from construction activities were obtained from the CalEEMod model, described above. The estimated construction GHG emissions for the proposed Project would be 15,766 $MTCO_2e$, as shown in Table 7, Estimated Greenhouse Gas Emissions from Construction.

TABLE 7
ESTIMATED GREENHOUSE GAS EMISSIONS
FROM CONSTRUCTION

Year	Emissions ($MTCO_2e$)
2024	1,554
2025	7,754
2026	6,298
2027	160
Total	15,766
Amortized	**526**

$MTCO_2e$: metric tons of carbon dioxide equivalent

Notes:
- Totals may not add due to rounding variances.
- Detailed calculations in Attachment A.

Operational phase activities would not change substantively from existing conditions because of the lack of additional energy consumption, stationary sources and mobile vehicle trips. As such, the Project would not result in a substantial change in GHG emissions. The Project involves improvements to existing dam infrastructure and would not result in substantial increases in air pollutant sources such as vehicular or energy consumption. Existing operations related to dam inspection and maintenance activities would be comparable to that which would occur under the Proposed Project. As such, GHG emissions would likewise be essentially the same.

Because impacts from construction activities occur over a relatively short period of time, they contribute a relatively small portion of the overall lifetime Project GHG emissions. In addition, GHG emission

reduction measures for construction equipment are relatively limited. The SCAQMD recommends that construction emissions be amortized over a 30-year Project lifetime so that GHG reduction measures address construction GHG emissions as part of the operational GHG reduction strategies (SCAQMD 2008). Therefore, construction and operational emissions are combined by amortizing the construction and operations over an assumed 30-year Project lifetime. This combination is shown in Table 8, Estimated Total Project Annual Greenhouse Gas Emissions, using the proposed Project's amortized construction and operational emissions.

TABLE 8
ESTIMATED TOTAL PROJECT ANNUAL GREENHOUSE GAS EMISSIONS

Source	Emissions ($MTCO_2e/yr^a$)
Construction (Amortized)	526[a]
Operations	--
Total[b]	**526**
SCAQMD-Recommended Threshold	**10,000**
Exceeds Threshold?	**No**

$MTCO_2e/yr$: metric tons of carbon dioxide equivalent per year; SCAQMD: South Coast Air Quality Management District.

[a] Total derived by dividing construction emissions (see Table 8) by 30.
[b] Total annual emissions are the sum of amortized construction emissions and operational emissions.

It is noted that there are no established applicable quantitative federal, State, regional, or local CEQA significance criteria for GHG emissions for non-industrial projects in the SoCAB. The SCAQMD has adopted an interim threshold of 10,000 $MTCO_2e$ per year for industrial land use projects. As shown, the estimated GHG emissions from the proposed Project would be less than this suggested threshold. The impact would be less than significant, and no mitigation is required.

Question GHG-2 Would the Project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Less than Significant Impact. The County of Orange has not adopted a Climate Action Plan, and the SCAQMD has not adopted standards for the purpose of reducing GHG emissions. There are a number of GHG reduction plans that have been adopted on the State and regional level. SCAG adopted this 2024–2050 RTP/SCS for the six-county region including Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura Counties.

2022 CARB Scoping Plan

The Project would not impede the State's progress towards carbon neutrality by 2045 under the 2022 Scoping Plan. The Project would be required to comply with applicable current and future regulatory requirements promulgated through the 2022 Scoping Plan. Moreover, and as indicated above, the Project's level of GHG emissions would not exceed the SCAQMD recommended threshold of 10,000 MTCO2e/yr. Moreover, the Project would be consistent with the CAP as demonstrated above; therefore the Project would be consistent with the GHG reduction mandates established by SB 32 and the 2022 Scoping Plan. A less than significant impact would occur. Vehicle trips associated with operations of the

infrastructure are expected to be the same or comparable to existing operating conditions. The minimal amount of vehicle trips would have a negligible effect on GHG emissions. However, the Project's improvements to existing water infrastructure would meet the Project's objectives of meeting the seismic, safety and design requirements; fulfill operational requirements; extend the useful life of the dam, and improve water supply reliability. This is especially important to the challenges posed by climate change which includes increased flooding, heat events, and droughts as discussed in the California Scoping Plan. The California Scoping Plan discusses the need to enact climate change adaptation measures for water resources which includes modernization, conservation, maintaining water quality, groundwater recharge, and minimizing flood risk. Maintaining and improving water infrastructure is part of the adaptation to climate change that is necessary to prevent flooding, and to assist in the provision of adequate water supplies to the region which are goals established within the County's Resource Element of the General Plan and the California Scoping Plan.

SCAG's 2024-2050 RTP/SCS

As discussed above, the principal State plan and policy adopted for the purpose of reducing GHG emissions is AB 32. The quantitative goal of AB 32 is to reduce GHG emissions to 1990 levels by 2020. SB 375, signed in September 2008 (Chapter 728, Statutes of 2008), aligns regional transportation planning efforts, regional GHG reduction targets, and land use and housing allocations. SB 375 requires Metropolitan Planning Organizations (MPOs) to adopt a Sustainable Communities Strategy (SCS) or alternative planning strategy (APS) that will address land use allocation in that Metropolitan Planning Organization's Regional Transportation Plan (RTP). The principles of SB 375 are incorporated in SCAG's adopted 2024-2050 RTP/SCS. The proposed Project is neither a housing development project nor a transportation project that would increase population within the State or increase vehicle miles travelled (VMT). As discussed previously, the Project would also not result in substantial amounts of GHG emissions from either the construction phase or from the operations phase. As shown above, the Project would result in emissions which are below the SCAQMD's draft interim significance threshold for GHGs. As such, GHG emissions generated by the Project are not considered to be substantial. Moreover, the Project would not conflict with the goals outlined in the plan, which are to build and maintain an integrated multimodal transportation network; develop, connect and sustain communities that are livable and thriving; create a healthy region for the people of today and tomorrow; and support a sustainable, efficient and productive regional economic environment that provides opportunities for all residents. A less than significant impact would occur.

Therefore, the Project would have less than significant impacts regarding conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing GHG emissions, and no mitigation measures are required.

CONCLUSION

The Project was analyzed for potential air quality and GHG emissions from both the construction and operational phases. Construction emissions from the Project would exceed the SCAQMD's regional construction emissions thresholds and would result in a significant and unavoidable impact related to regional air quality despite the application of mitigation measures (**MM AQ-1**). Localized construction emissions would be less than significant due to the large distance between the Project's construction activities and the nearest sensitive land uses. Because construction emissions would exceed the SCAQMD's regional thresholds, it would also not be consistent with the goals of the AQMP and would result in a significant and unavoidable impact relative to consistency with local air quality plans.

Long-term operational emissions, and exposure of sensitive receptors to long-term criteria pollutant and TAC emissions from stationary or mobile sources would be less than significant due to the lack of additional emission sources attributable to the Project. The Project would also not exceed the growth assumptions in the AQMP and would not result in impacts related to consistent with local air quality plans for the operations phase. The proposed Project would not increase congestion or result in a significant impact related to CO hotspots.

GHG emissions for the construction and operations phases of the Project would be less than the SCAQMD-recommended threshold of 10,000 $MTCO_2e$ per year. As such, the Project would have less than significant impacts regarding generation of GHG emissions that may have a significant impact on the environment. Additionally, the Project would have less than significant impacts regarding conflict with an applicable plan, policy, or regulation adopted form the purpose of reducing the emissions of GHGs. In conclusion, the Project would have less than significant impacts for all Project-related GHG emissions.

Thank you for the opportunity to assist on this Project. If you have any questions or comments, please contact me at 714.481.8041.

Sincerely,
PSOMAS

Jennifer Y. Marks
Principal

Jordan Werkmeister
Air Quality and GHG Specialist

Enclosures: Exhibits 1-1 through 1-2, Regional Location and Aerial Photograph
Attachment A – CalEEMod Data

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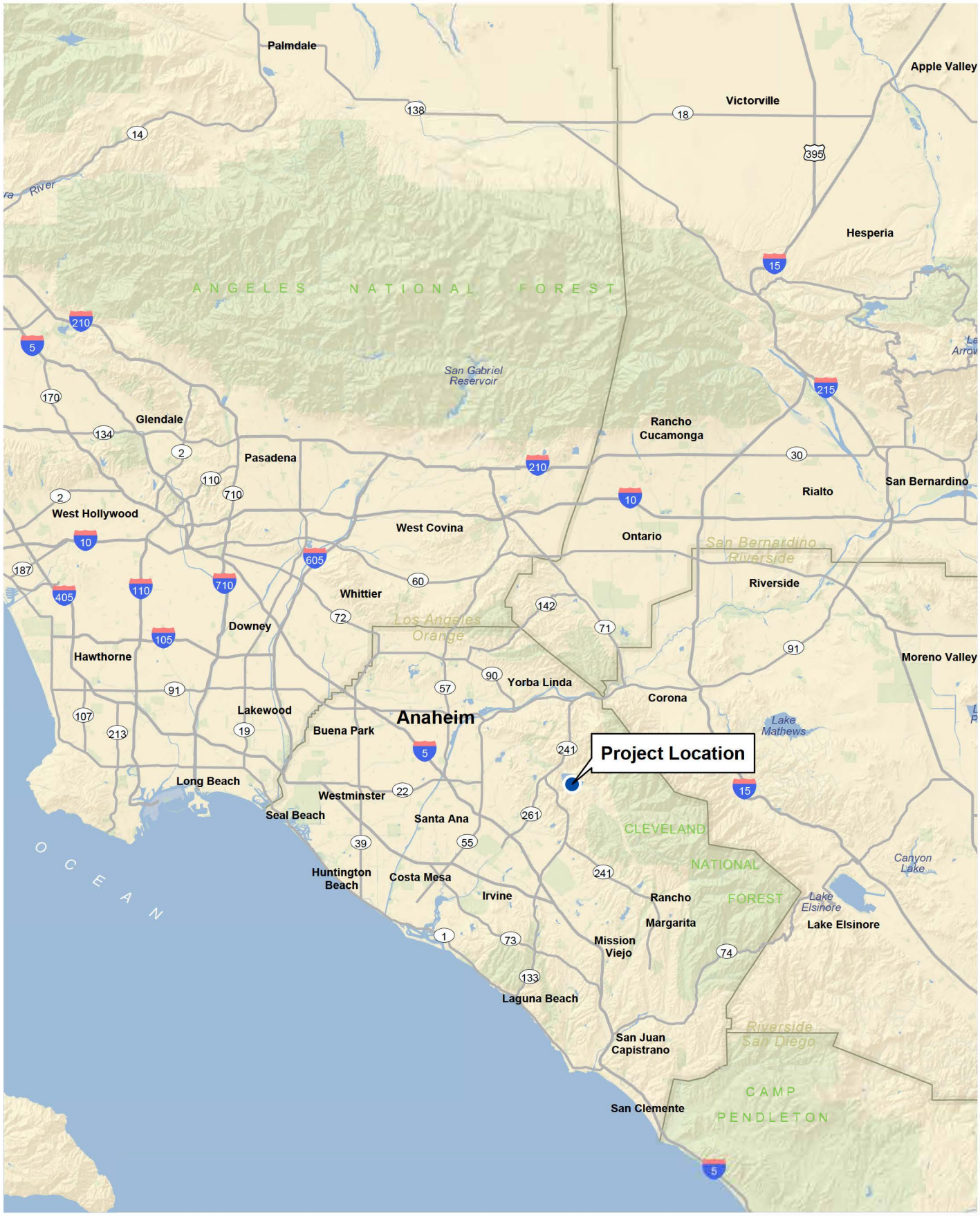

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Regional Location

Exhibit 1-1

Santiago Creek Dam Improvements Project

N W E S

0 5 10 Miles

PSOMAS

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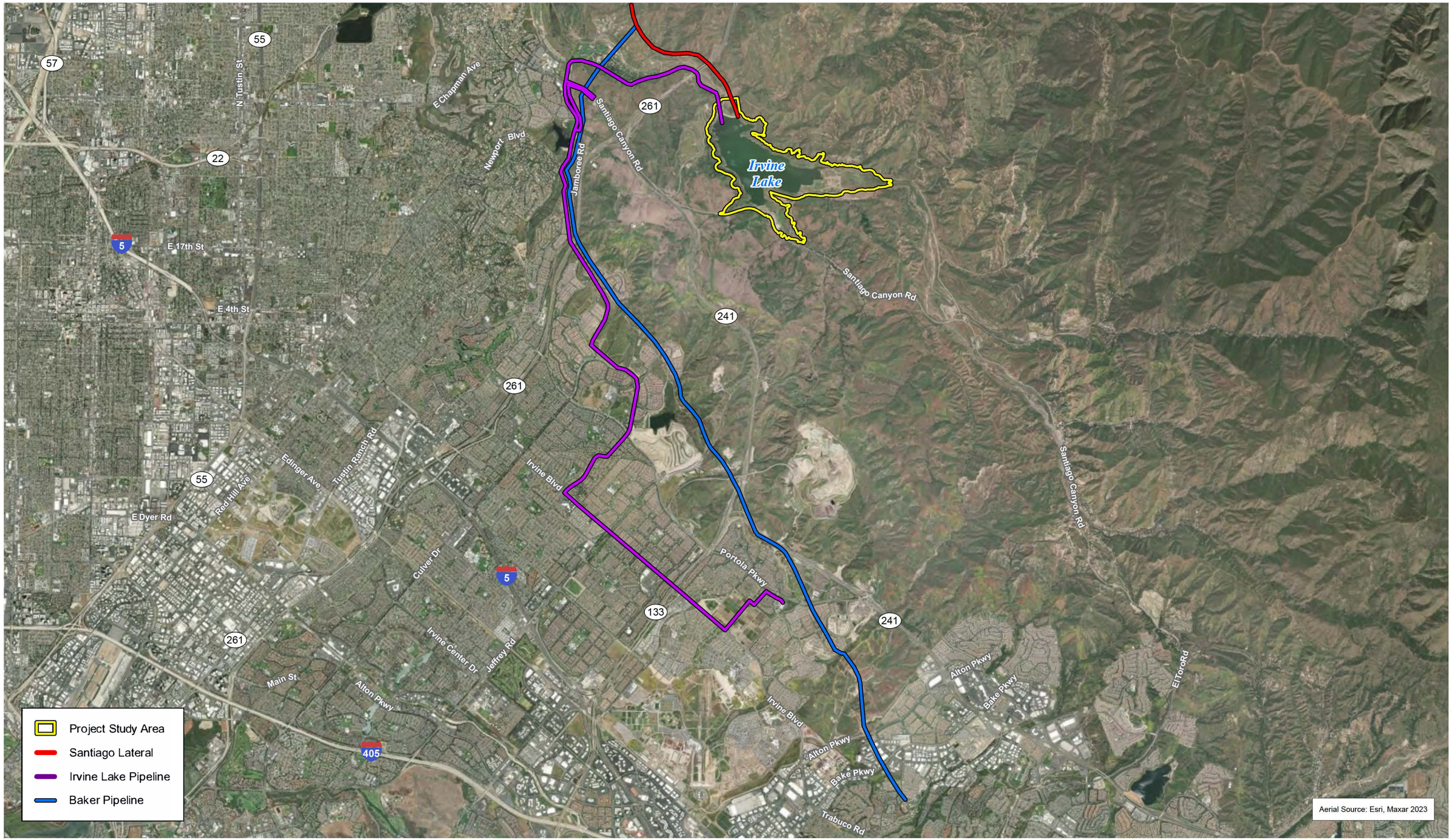

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Aerial Photograph

Exhibit 1-2

Santiago Creek Dam Improvements Project

N W E S

0 0.6 1.2 Miles

PSOMAS

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ATTACHMENT A

CALEEMOD DATA

Attached is the output data from the CalEEMod criteria air pollutant and GHG model.

Santiago Creek Dam v2 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Santiago Creek Dam v2
Construction Start Date	9/1/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	2.20
Location	Irvine Lake, California 92676, USA
County	Orange
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5797
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

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
User Defined Linear	0.09	Mile	0.00	0.00	—	—	—	Irvine Lake Pipeline
General Light Industry	16.0	1000sqft	0.37	16,000	0.00	—	—	Inlet/Outlet Structure

Road Construction	0.06	Mile	0.09	0.00	—	—	—	Access Roadway
Bridge/Overpass Construction	0.03	Mile	0.06	0.00	—	—	—	Spillway Vehicle Bridge
User Defined Linear	0.25	Mile	0.40	0.00	—	—	—	MSE Wall (Dam Crest Widening)
General Light Industry	0.94	1000sqft	0.02	936	936	0.00	—	Dam Control Building
User Defined Linear	0.08	Mile	0.00	0.00	—	—	—	Emergency Outlet Pipe
User Defined Linear	0.20	Mile	2.97	0.00	—	—	—	Spillway Chute

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers

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.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	241	468	573	1.40	18.1	55.5	68.1	16.6	20.5	34.6	154,101
Mit.	221	147	749	1.40	5.53	55.5	61.0	4.58	20.5	25.1	154,101
% Reduced	8%	69%	-31%	—	69%	—	10%	72%	—	27%	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	54.9	472	501	1.32	18.8	43.0	55.6	17.3	21.4	34.9	144,033
Mit.	19.3	137	733	1.32	4.41	43.0	43.9	4.26	21.4	22.3	144,033
% Reduced	65%	71%	-46%	—	76%	—	21%	75%	—	36%	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	30.2	149	178	0.42	6.03	23.8	29.9	5.51	11.2	16.7	46,835
Mit.	18.9	46.5	244	0.42	1.58	23.8	25.4	1.48	11.2	12.7	46,835
% Reduced	38%	69%	-37%	—	74%	—	15%	73%	—	24%	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.51	27.2	32.4	0.08	1.10	4.35	5.45	1.01	2.04	3.05	7,754
Mit.	3.44	8.50	44.5	0.08	0.29	4.35	4.64	0.27	2.04	2.31	7,754
% Reduced	38%	69%	-37%	—	74%	—	15%	73%	—	24%	—

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	4.74	49.2	42.8	0.17	1.71	3.64	5.35	1.58	0.88	2.46	22,433
2025	241	468	573	1.40	18.1	55.5	68.1	16.6	20.5	34.6	154,101
2026	46.4	374	433	1.11	15.2	36.9	52.1	14.0	17.7	31.7	121,889
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	22.8	205	179	0.59	7.75	13.4	21.2	7.14	5.41	12.5	68,598
2025	54.9	472	501	1.32	18.8	43.0	55.6	17.3	21.4	34.9	144,033
2026	33.9	280	349	1.01	10.9	34.3	36.9	10.1	17.1	19.4	110,312
2027	6.87	59.2	55.8	0.14	2.51	28.5	31.0	2.31	13.1	15.4	16,013
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2024	2.79	25.5	23.1	0.08	0.94	2.25	3.19	0.87	0.95	1.82	9,388
2025	30.2	149	178	0.42	6.03	23.8	29.9	5.51	11.2	16.7	46,835
2026	13.2	108	129	0.34	4.42	14.2	18.6	4.07	6.70	10.8	38,043

2027	0.42	3.58	3.38	0.01	0.15	1.72	1.87	0.14	0.79	0.93	969
Annual	—	—	—	—	—	—	—	—	—	—	—
2024	0.51	4.66	4.21	0.01	0.17	0.41	0.58	0.16	0.17	0.33	1,554
2025	5.51	27.2	32.4	0.08	1.10	4.35	5.45	1.01	2.04	3.05	7,754
2026	2.42	19.7	23.5	0.06	0.81	2.59	3.39	0.74	1.22	1.97	6,298
2027	0.08	0.65	0.62	< 0.005	0.03	0.31	0.34	0.03	0.14	0.17	160

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	1.73	21.8	69.0	0.17	0.44	3.64	4.07	0.43	0.88	1.31	22,433
2025	221	147	749	1.40	5.53	55.5	61.0	4.58	20.5	25.1	154,101
2026	15.9	112	617	1.11	3.62	36.9	40.5	3.50	17.7	21.2	121,889
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	6.11	45.7	293	0.59	1.29	13.4	14.7	1.28	5.41	6.69	68,598
2025	19.3	137	733	1.32	4.41	43.0	43.9	4.26	21.4	22.3	144,033
2026	13.5	87.4	560	1.01	2.99	34.3	34.7	2.91	17.1	17.4	110,312
2027	1.52	9.04	76.0	0.14	0.29	28.5	28.8	0.29	13.1	13.4	16,013
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2024	0.84	7.41	36.8	0.08	0.19	2.25	2.44	0.19	0.95	1.14	9,388
2025	18.9	46.5	244	0.42	1.58	23.8	25.4	1.48	11.2	12.7	46,835
2026	4.68	32.7	190	0.34	1.04	14.2	15.2	1.01	6.70	7.71	38,043
2027	0.09	0.55	4.60	0.01	0.02	1.72	1.74	0.02	0.79	0.81	969
Annual	—	—	—	—	—	—	—	—	—	—	—
2024	0.15	1.35	6.72	0.01	0.04	0.41	0.45	0.03	0.17	0.21	1,554

2025	3.44	8.50	44.5	0.08	0.29	4.35	4.64	0.27	2.04	2.31	7,754
2026	0.85	5.97	34.8	0.06	0.19	2.59	2.78	0.18	1.22	1.41	6,298
2027	0.02	0.10	0.84	< 0.005	< 0.005	0.31	0.32	< 0.005	0.14	0.15	160

3. Construction Emissions Details

3.1. Part 1 Site Demolition (Excludes Spillway) (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84	6.78	6.59	0.03	0.24	—	0.24	0.22	—	0.22	3,114
Demolition	—	—	—	—	—	0.78	0.78	—	0.12	0.12	—
Onsite truck	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	0.05	0.41	0.40	< 0.005	0.01	—	0.01	0.01	—	0.01	188
Demolition	—	—	—	—	—	0.05	0.05	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.1
Demolition	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.26	0.00	0.00	0.07	0.07	0.00	0.02	0.02	65.2
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.99
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.66
Vendor	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

3.2. Part 1 Site Demolition (Excludes Spillway) (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	1.53	15.3	0.03	0.06	—	0.06	0.06	—	0.06	3,114
Demolition	—	—	—	—	—	0.78	0.78	—	0.12	0.12	—
Onsite truck	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	0.09	0.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	188
Demolition	—	—	—	—	—	0.05	0.05	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.1
Demolition	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.26	0.00	0.00	0.07	0.07	0.00	0.02	0.02	65.2
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.99
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.66
Vendor	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

3.3. Part 2 Site Demolition (Excludes Spillway) (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.79	5.81	6.56	0.03	0.21	—	0.21	0.20	—	0.20	3,116
Demolition	—	—	—	—	—	0.78	0.78	—	0.12	0.12	—
Onsite truck	0.00	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	0.05	0.35	0.40	< 0.005	0.01	—	0.01	0.01	—	0.01	188
Demolition	—	—	—	—	—	0.05	0.05	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.1
Demolition	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.28	0.00	0.00	0.07	0.07	0.00	0.02	0.02	67.4
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.91
Vendor	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

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.65
Vendor	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

3.4. Part 2 Site Demolition (Excludes Spillway) (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	1.53	15.3	0.03	0.06	—	0.06	0.06	—	0.06	3,116
Demolition	—	—	—	—	—	0.78	0.78	—	0.12	0.12	—
Onsite truck	0.00	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	0.09	0.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	188
Demolition	—	—	—	—	—	0.05	0.05	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.1
Demolition	—	—	—	—	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.28	0.00	0.00	0.07	0.07	0.00	0.02	0.02	67.4
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.91
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.65
Vendor	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

3.5. Spillway Demolition: Existing Spillway Demo (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	87.9	26.0	147	0.06	2.24	—	2.24	1.82	—	1.82	5,619
Demolition	—	—	—	—	—	4.41	4.41	—	0.67	0.67	—
Onsite truck	0.00	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	5.30	1.57	8.89	< 0.005	0.14	—	0.14	0.11	—	0.11	339
Demolition	—	—	—	—	—	0.27	0.27	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.29	1.62	< 0.005	0.02	—	0.02	0.02	—	0.02	56.1
Demolition	—	—	—	—	—	0.05	0.05	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	1.96	0.00	0.00	0.46	0.46	0.00	0.11	0.11	471
Vendor	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	1.36	0.64	0.01	0.01	0.26	0.28	0.01	0.07	0.09	1,082
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	27.4
Vendor	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	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	65.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	4.53
Vendor	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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.8

3.6. Spillway Demolition: Existing Spillway Demo (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	85.4	15.5	152	0.06	1.57	—	1.57	1.21	—	1.21	5,619
Demolition	—	—	—	—	—	4.41	4.41	—	0.67	0.67	—
Onsite truck	0.00	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	5.15	0.94	9.19	< 0.005	0.09	—	0.09	0.07	—	0.07	339
Demolition	—	—	—	—	—	0.27	0.27	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.17	1.68	< 0.005	0.02	—	0.02	0.01	—	0.01	56.1
Demolition	—	—	—	—	—	0.05	0.05	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	1.96	0.00	0.00	0.46	0.46	0.00	0.11	0.11	471
Vendor	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	1.36	0.64	0.01	0.01	0.26	0.28	0.01	0.07	0.09	1,082
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	27.4
Vendor	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	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	65.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	4.53
Vendor	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	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.8

3.7. Spillway Demolition: Crush Concrete Demo (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	44.6	15.3	75.8	0.07	1.25	—	1.25	1.03	—	1.03	7,337
Demolition	—	—	—	—	—	9.80	9.80	—	1.48	1.48	—
Onsite truck	0.00	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	2.69	0.92	4.57	< 0.005	0.08	—	0.08	0.06	—	0.06	442
Demolition	—	—	—	—	—	0.59	0.59	—	0.09	0.09	—
Onsite truck	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	0.49	0.17	0.83	< 0.005	0.01	—	0.01	0.01	—	0.01	73.2
Demolition	—	—	—	—	—	0.11	0.11	—	0.02	0.02	—
Onsite truck	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	0.70	0.00	0.00	0.16	0.16	0.00	0.04	0.04	168
Vendor	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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.77
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.62
Vendor	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

3.8. Spillway Demolition: Crush Concrete Demo (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	43.1	4.62	95.7	0.07	0.87	—	0.87	0.69	—	0.69	7,337
Demolition	—	—	—	—	—	9.80	9.80	—	1.48	1.48	—
Onsite truck	0.00	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	2.60	0.28	5.77	< 0.005	0.05	—	0.05	0.04	—	0.04	442
Demolition	—	—	—	—	—	0.59	0.59	—	0.09	0.09	—
Onsite truck	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	0.47	0.05	1.05	< 0.005	0.01	—	0.01	0.01	—	0.01	73.2
Demolition	—	—	—	—	—	0.11	0.11	—	0.02	0.02	—
Onsite truck	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	0.70	0.00	0.00	0.16	0.16	0.00	0.04	0.04	168
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	9.77
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.62
Vendor	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

3.9. Spillway Demolition: Bridge Pier and Facing Demo (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	87.9	26.0	147	0.06	2.24	—	2.24	1.82	—	1.82	5,619
Demolition	—	—	—	—	—	4.41	4.41	—	0.67	0.67	—

Onsite truck	0.00	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	5.30	1.57	8.89	< 0.005	0.14	—	0.14	0.11	—	0.11	339
Demolition	—	—	—	—	—	0.27	0.27	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	0.29	1.62	< 0.005	0.02	—	0.02	0.02	—	0.02	56.1
Demolition	—	—	—	—	—	0.05	0.05	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	1.96	0.00	0.00	0.46	0.46	0.00	0.11	0.11	471
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	27.4
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	4.53
Vendor	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

3.10. Spillway Demolition: Bridge Pier and Facing Demo (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	85.4	15.5	152	0.06	1.57	—	1.57	1.21	—	1.21	5,619
Demolition	—	—	—	—	—	4.41	4.41	—	0.67	0.67	—
Onsite truck	0.00	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	5.15	0.94	9.19	< 0.005	0.09	—	0.09	0.07	—	0.07	339
Demolition	—	—	—	—	—	0.27	0.27	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.17	1.68	< 0.005	0.02	—	0.02	0.01	—	0.01	56.1
Demolition	—	—	—	—	—	0.05	0.05	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	1.96	0.00	0.00	0.46	0.46	0.00	0.11	0.11	471
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	27.4
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	4.53
Vendor	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

3.11. Temporary Flood Control Berm (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.13	40.2	38.8	0.12	1.60	—	1.60	1.47	—	1.47	12,868
Onsite truck	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	2.42	2.34	0.01	0.10	—	0.10	0.09	—	0.09	776
Onsite truck	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	0.44	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	128
Onsite truck	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	0.08	0.91	0.00	0.00	0.23	0.23	0.00	0.05	0.05	228
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	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
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.31
Vendor	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

3.12. Temporary Flood Control Berm (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.21	6.31	64.2	0.12	0.24	—	0.24	0.24	—	0.24	12,868
Onsite truck	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	0.38	3.87	0.01	0.01	—	0.01	0.01	—	0.01	776

Onsite truck	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	0.07	0.71	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	128
Onsite truck	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	0.08	0.91	0.00	0.00	0.23	0.23	0.00	0.05	0.05	228
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	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
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.31
Vendor	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

3.13. Mobilization (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.56	29.5	28.9	0.10	1.10	—	1.10	1.01	—	1.01	10,589

Dust From Material Movement	—	—	—	—	—	0.67	0.67	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.56	29.5	28.9	0.10	1.10	—	1.10	1.01	—	1.01	10,589
Dust From Material Movement	—	—	—	—	—	0.67	0.67	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	1.78	1.74	0.01	0.07	—	0.07	0.06	—	0.06	638
Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.32	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	106
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.09	1.35	0.00	0.00	0.29	0.29	0.00	0.07	0.07	309
Vendor	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	0.82	0.38	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	642
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.08	0.10	1.17	0.00	0.00	0.29	0.29	0.00	0.07	0.07	294
Vendor	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	0.85	0.39	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	641
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	18.0
Vendor	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	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.6
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.97
Vendor	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.40

3.14. Mobilization (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.00	5.20	54.6	0.10	0.20	—	0.20	0.20	—	0.20	10,589
Dust From Material Movement	—	—	—	—	—	0.67	0.67	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.00	5.20	54.6	0.10	0.20	—	0.20	0.20	—	0.20	10,589
Dust From Material Movement	—	—	—	—	—	0.67	0.67	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.31	3.29	0.01	0.01	—	0.01	0.01	—	0.01	638
Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	106
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.09	1.35	0.00	0.00	0.29	0.29	0.00	0.07	0.07	309
Vendor	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	0.82	0.38	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	642
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.17	0.00	0.00	0.29	0.29	0.00	0.07	0.07	294
Vendor	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	0.85	0.39	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	641
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	18.0
Vendor	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	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.6
Annual	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.97
Vendor	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.40

3.15. Demobilization (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.28	23.7	28.5	0.10	0.89	—	0.89	0.81	—	0.81	10,606
Dust From Material Movement	—	—	—	—	—	0.67	0.67	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	1.43	1.72	0.01	0.05	—	0.05	0.05	—	0.05	639
Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.26	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	106
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

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	1.02	0.00	0.00	0.29	0.29	0.00	0.07	0.07	282
Vendor	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	0.68	0.31	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	530
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	17.3
Vendor	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	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.86
Vendor	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.29

3.16. Demobilization (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.00	5.20	54.6	0.10	0.20	—	0.20	0.20	—	0.20	10,606
Dust From Material Movement	—	—	—	—	—	0.67	0.67	—	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

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.31	3.29	0.01	0.01	—	0.01	0.01	—	0.01	639
Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	106
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.08	1.02	0.00	0.00	0.29	0.29	0.00	0.07	0.07	282
Vendor	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	0.68	0.31	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	530
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	17.3
Vendor	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	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.86
Vendor	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	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.29

3.17. Cleanup (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.16	53.3	47.6	0.12	2.20	—	2.20	2.03	—	2.03	13,529
Dust From Material Movement	—	—	—	—	—	27.9	27.9	—	13.0	13.0	—
Onsite truck	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	0.37	3.21	2.87	0.01	0.13	—	0.13	0.12	—	0.12	815
Dust From Material Movement	—	—	—	—	—	1.68	1.68	—	0.78	0.78	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.59	0.52	< 0.005	0.02	—	0.02	0.02	—	0.02	135
Dust From Material Movement	—	—	—	—	—	0.31	0.31	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.05	0.74	0.00	0.00	0.23	0.23	0.00	0.05	0.05	216
Vendor	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	0.22	0.10	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	174
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	13.2
Vendor	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	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.19
Vendor	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	1.73

3.18. Cleanup (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27	6.61	66.1	0.12	0.25	—	0.25	0.25	—	0.25	13,529
Dust From Material Movement	—	—	—	—	—	27.9	27.9	—	13.0	13.0	—
Onsite truck	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	0.08	0.40	3.99	0.01	0.02	—	0.02	0.02	—	0.02	815

Dust From Material Movement	—	—	—	—	—	1.68	1.68	—	0.78	0.78	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.73	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	135
Dust From Material Movement	—	—	—	—	—	0.31	0.31	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.74	0.00	0.00	0.23	0.23	0.00	0.05	0.05	216
Vendor	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	0.22	0.10	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	174
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	13.2
Vendor	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	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	10.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.19
Vendor	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	1.73

3.19. Allowance for Piping Install (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.76	6.40	7.55	0.03	0.24	—	0.24	0.22	—	0.22	2,828
Onsite truck	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	0.05	0.39	0.46	< 0.005	0.01	—	0.01	0.01	—	0.01	170
Onsite truck	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	0.07	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	28.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.10	0.10	0.00	0.02	0.02	97.9
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.99
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.99
Vendor	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

3.20. Allowance for Piping Install (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	1.39	14.9	0.03	0.05	—	0.05	0.05	—	0.05	2,828
Onsite truck	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	0.08	0.90	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	170
Onsite truck	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	0.02	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	28.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.10	0.10	0.00	0.02	0.02	97.9
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.99

Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.99
Vendor	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

3.21. Bypass Pumping Diversion Beam (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.40	1.58	< 0.005	0.10	—	0.10	0.09	—	0.09	313
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.40	1.58	< 0.005	0.10	—	0.10	0.09	—	0.09	313
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.51	0.34	< 0.005	0.02	—	0.02	0.02	—	0.02	66.8

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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.1
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	34.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.19	11.3	4.92	0.06	0.11	2.32	2.43	0.11	0.65	0.76	9,565
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.18	11.7	4.96	0.06	0.11	2.32	2.43	0.11	0.65	0.76	9,550
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.08
Vendor	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	2.52	1.06	0.01	0.02	0.50	0.52	0.02	0.14	0.16	2,042
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.17
Vendor	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	0.46	0.19	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	338

3.22. Bypass Pumping Diversion Beam (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.40	1.58	< 0.005	0.10	—	0.10	0.09	—	0.09	313
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.40	1.58	< 0.005	0.10	—	0.10	0.09	—	0.09	313
Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.51	0.34	< 0.005	0.02	—	0.02	0.02	—	0.02	66.8
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.1
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	34.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.19	11.3	4.92	0.06	0.11	2.32	2.43	0.11	0.65	0.76	9,565
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.18	11.7	4.96	0.06	0.11	2.32	2.43	0.11	0.65	0.76	9,550
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.08
Vendor	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	2.52	1.06	0.01	0.02	0.50	0.52	0.02	0.14	0.16	2,042
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.17
Vendor	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	0.46	0.19	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	338

3.23. Inclined Inlet Structure: Steel Pipe and Appurtenances (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.49	12.9	14.7	0.03	0.47	—	0.47	0.43	—	0.43	2,755

Onsite truck	0.00	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	1.49	12.9	14.7	0.03	0.47	—	0.47	0.43	—	0.43	2,755
Onsite truck	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	0.27	2.37	2.69	< 0.005	0.09	—	0.09	0.08	—	0.08	506
Onsite truck	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	0.43	0.49	< 0.005	0.02	—	0.02	0.01	—	0.01	83.7
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.0
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.80

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.24. Inclined Inlet Structure: Steel Pipe and Appurtenances (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	6.19	16.7	0.03	0.05	—	0.05	0.05	—	0.05	2,755
Onsite truck	0.00	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	6.19	16.7	0.03	0.05	—	0.05	0.05	—	0.05	2,755
Onsite truck	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	1.14	3.06	< 0.005	0.01	—	0.01	0.01	—	0.01	506
Onsite truck	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	0.21	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	83.7
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.0
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.25. Inclined Inlet Structure: Reinforced Concrete (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.25	21.6	21.9	0.07	0.80	—	0.80	0.73	—	0.73	6,749
Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.02	0.02	—
Onsite truck	0.00	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	2.25	21.6	21.9	0.07	0.80	—	0.80	0.73	—	0.73	6,749

Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.02	0.02	—
Onsite truck	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	0.27	2.60	2.65	0.01	0.10	—	0.10	0.09	—	0.09	814
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.47	0.48	< 0.005	0.02	—	0.02	0.02	—	0.02	135
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.09	4.70	2.22	0.02	0.04	0.91	0.95	0.04	0.25	0.30	3,742
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	0.09	4.88	2.24	0.02	0.04	0.91	0.95	0.04	0.25	0.30	3,736
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1

Hauling	0.01	0.59	0.27	< 0.005	0.01	0.11	0.11	0.01	0.03	0.04	451
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84
Hauling	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	74.6

3.26. Inclined Inlet Structure: Reinforced Concrete (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	7.35	35.2	0.07	0.29	—	0.29	0.28	—	0.28	6,749
Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.02	0.02	—
Onsite truck	0.00	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	1.14	7.35	35.2	0.07	0.29	—	0.29	0.28	—	0.28	6,749
Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.02	0.02	—
Onsite truck	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	0.14	0.89	4.25	0.01	0.04	—	0.04	0.03	—	0.03	814
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.16	0.78	< 0.005	0.01	—	0.01	0.01	—	0.01	135
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.09	4.70	2.22	0.02	0.04	0.91	0.95	0.04	0.25	0.30	3,742
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	0.09	4.88	2.24	0.02	0.04	0.91	0.95	0.04	0.25	0.30	3,736
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	0.01	0.59	0.27	< 0.005	0.01	0.11	0.11	0.01	0.03	0.04	451
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84
Hauling	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	74.6

3.27. Inclined Inlet Structure: Drilled Foundation Anchors (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	8.92	12.8	0.05	0.34	—	0.34	0.31	—	0.31	5,231
Onsite truck	0.00	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	0.07	0.54	0.77	< 0.005	0.02	—	0.02	0.02	—	0.02	315
Onsite truck	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	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	52.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.28. Inclined Inlet Structure: Drilled Foundation Anchors (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	2.60	27.6	0.05	0.10	—	0.10	0.10	—	0.10	5,231
Onsite truck	0.00	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	0.03	0.16	1.66	< 0.005	0.01	—	0.01	0.01	—	0.01	315
Onsite truck	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	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	52.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.29. Inclined Inlet Structure: Excavation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.79	11.0	12.8	0.06	0.39	—	0.39	0.36	—	0.36	6,006
Onsite truck	0.00	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	0.66	0.77	< 0.005	0.02	—	0.02	0.02	—	0.02	362
Onsite truck	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	0.12	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	59.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.30. Inclined Inlet Structure: Excavation (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	2.95	29.5	0.06	0.11	—	0.11	0.11	—	0.11	6,006
Onsite truck	0.00	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	0.03	0.18	1.78	< 0.005	0.01	—	0.01	0.01	—	0.01	362
Onsite truck	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	0.03	0.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	59.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.31. Inclined Inlet Structure: Stainless Steel Platform (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	6.49	8.40	0.02	0.27	—	0.27	0.25	—	0.25	2,035

Onsite truck	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	0.04	0.39	0.51	< 0.005	0.02	—	0.02	0.02	—	0.02	123
Onsite truck	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	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.32. Inclined Inlet Structure: Stainless Steel Platform (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.00	11.6	0.02	0.04	—	0.04	0.04	—	0.04	2,035
Onsite truck	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	0.06	0.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	123
Onsite truck	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	0.01	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.33. Inclined Inlet Structure: Pneumatic Actuation Control System (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	6.49	8.40	0.02	0.27	—	0.27	0.25	—	0.25	2,035
Onsite truck	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	0.04	0.39	0.51	< 0.005	0.02	—	0.02	0.02	—	0.02	123
Onsite truck	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	0.07	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56

Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.34. Inclined Inlet Structure: Pneumatic Actuation Control System (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.00	11.6	0.02	0.04	—	0.04	0.04	—	0.04	2,035
Onsite truck	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	0.06	0.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	123
Onsite truck	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	0.01	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.35. Cofferdam Installation and Removal: Install Cofferdam H/King Piles (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	12.4	12.5	0.03	0.41	—	0.41	0.38	—	0.38	3,304
Onsite truck	0.00	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	0.21	2.24	2.25	0.01	0.08	—	0.08	0.07	—	0.07	597
Onsite truck	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	0.41	0.41	< 0.005	0.01	—	0.01	0.01	—	0.01	98.9

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.7
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.7
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.76
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.36. Cofferdam Installation and Removal: Install Cofferdam H/King Piles (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	3.17	17.9	0.03	0.06	—	0.06	0.06	—	0.06	3,304
Onsite truck	0.00	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	0.06	0.57	3.24	0.01	0.01	—	0.01	0.01	—	0.01	597
Onsite truck	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	0.10	0.59	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	98.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.7
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.7
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.76
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.37. Cofferdam Installation and Removal: Dewatering (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.59	4.77	3.15	0.01	0.19	—	0.19	0.18	—	0.18	625
Onsite truck	0.00	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	0.07	0.57	0.38	< 0.005	0.02	—	0.02	0.02	—	0.02	75.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.38. Cofferdam Installation and Removal: Dewatering (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	4.77	3.15	0.01	0.19	—	0.19	0.18	—	0.18	625
Onsite truck	0.00	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	0.07	0.57	0.38	< 0.005	0.02	—	0.02	0.02	—	0.02	75.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1

Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.39. Cofferdam Installation and Removal: Remove Cofferdam H/King Piles (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	11.8	12.3	0.03	0.39	—	0.39	0.36	—	0.36	3,303
Onsite truck	0.00	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	0.07	0.71	0.74	< 0.005	0.02	—	0.02	0.02	—	0.02	199
Onsite truck	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	0.13	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.0
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1

Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.40. Cofferdam Installation and Removal: Remove Cofferdam H/King Piles (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	3.17	17.9	0.03	0.06	—	0.06	0.06	—	0.06	3,303
Onsite truck	0.00	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	0.19	1.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	199
Onsite truck	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	0.03	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	33.0

Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.41. Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.66	58.6	40.1	0.10	2.30	—	2.30	2.12	—	2.12	11,306
Onsite truck	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	0.34	3.53	2.42	0.01	0.14	—	0.14	0.13	—	0.13	681
Onsite truck	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	0.64	0.44	< 0.005	0.03	—	0.03	0.02	—	0.02	113
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.42. Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	5.54	55.4	0.10	0.21	—	0.21	0.21	—	0.21	11,306
Onsite truck	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	0.33	3.34	0.01	0.01	—	0.01	0.01	—	0.01	681
Onsite truck	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	0.06	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	113
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.43. Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.90	26.5	23.0	0.06	1.09	—	1.09	1.00	—	1.00	6,097
Onsite truck	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	0.17	1.60	1.39	< 0.005	0.07	—	0.07	0.06	—	0.06	367
Onsite truck	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	0.29	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	60.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.44. Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.57	2.98	29.8	0.06	0.11	—	0.11	0.11	—	0.11	6,097
Onsite truck	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	0.03	0.18	1.80	< 0.005	0.01	—	0.01	0.01	—	0.01	367
Onsite truck	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	0.03	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.45. Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.05	10.7	7.86	0.02	0.38	—	0.38	0.35	—	0.35	2,674
Onsite truck	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	0.65	0.47	< 0.005	0.02	—	0.02	0.02	—	0.02	161
Onsite truck	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	0.12	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	26.7
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.46. Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	1.31	14.2	0.02	0.05	—	0.05	0.05	—	0.05	2,674
Onsite truck	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	0.08	0.85	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	161
Onsite truck	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	0.01	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	26.7
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.47. Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.52	18.7	18.2	0.06	0.80	—	0.80	0.73	—	0.73	6,737
Onsite truck	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	0.15	1.12	1.10	< 0.005	0.05	—	0.05	0.04	—	0.04	406
Onsite truck	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	0.21	0.20	< 0.005	0.01	—	0.01	0.01	—	0.01	67.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.48. Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	3.60	34.7	0.06	0.14	—	0.14	0.14	—	0.14	6,737
Onsite truck	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	0.04	0.22	2.09	< 0.005	0.01	—	0.01	0.01	—	0.01	406
Onsite truck	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	0.04	0.38	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	67.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.49. Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	2.25	4.48	0.01	0.11	—	0.11	0.10	—	0.10	788
Onsite truck	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	0.14	0.27	< 0.005	0.01	—	0.01	0.01	—	0.01	47.5
Onsite truck	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	0.02	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.86
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.50. Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.39	5.52	0.01	0.01	—	0.01	0.01	—	0.01	788
Onsite truck	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	0.02	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	47.5
Onsite truck	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	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.86
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.51. Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.32	11.5	17.1	0.04	0.48	—	0.48	0.44	—	0.44	3,806
Onsite truck	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	0.08	0.69	1.03	< 0.005	0.03	—	0.03	0.03	—	0.03	229
Onsite truck	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	0.13	0.19	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	38.0
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.52. Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	4.02	23.5	0.04	0.16	—	0.16	0.15	—	0.15	3,806
Onsite truck	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	0.04	0.24	1.42	< 0.005	0.01	—	0.01	0.01	—	0.01	229
Onsite truck	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	0.04	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	38.0
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.68
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.66
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.94
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.53. Dam Control Building: Pt 1 CMU Control Building (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.55	3.55	0.01	0.21	—	0.21	0.19	—	0.19	563
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.55	3.55	0.01	0.21	—	0.21	0.19	—	0.19	563
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.47	0.65	< 0.005	0.04	—	0.04	0.04	—	0.04	103
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.12	< 0.005	0.01	—	0.01	0.01	—	0.01	17.1
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.01	0.64	0.28	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	564
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	0.01	0.66	0.29	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	564
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.6
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.7
Hauling	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	104
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.75
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.76
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.1

3.54. Dam Control Building: Pt 1 CMU Control Building (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.04	3.92	0.01	0.01	—	0.01	0.01	—	0.01	563

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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.04	3.92	0.01	0.01	—	0.01	0.01	—	0.01	563
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.19	0.72	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	103
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	17.1
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.01	0.64	0.28	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	564
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	0.01	0.66	0.29	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	564
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.6
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.7
Hauling	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	104
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.75
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.76
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.1

3.55. Dam Control Building: Pt 2 CMU Control Building (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.55	3.55	0.01	0.21	—	0.21	0.19	—	0.19	563
Onsite truck	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	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	34.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.65

Onsite truck	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	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.49
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.52
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.56. Dam Control Building: Pt 2 CMU Control Building (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.04	3.92	0.01	0.01	—	0.01	0.01	—	0.01	563
Onsite truck	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	0.06	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	34.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.65
Onsite truck	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	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.49
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.52
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.91
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.57. Dam Control Building: Pt 2 CMU Control Building (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	2.44	3.56	0.01	0.20	—	0.20	0.18	—	0.18	564
Onsite truck	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	0.16	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	36.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.03
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.30	0.00	0.00	0.09	0.09	0.00	0.02	0.02	87.7
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	89.1
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.75
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.76
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.95
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.58. Dam Control Building: Pt 2 CMU Control Building (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	1.04	3.92	0.01	0.01	—	0.01	0.01	—	0.01	564
Onsite truck	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	0.07	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	36.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	6.03
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.30	0.00	0.00	0.09	0.09	0.00	0.02	0.02	87.7
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	89.1
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.75
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.76

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.95
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.95
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.59. Dam Control Building: Reinforced Concrete Foundation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	6.38	10.6	0.02	0.26	—	0.26	0.24	—	0.24	2,287
Onsite truck	0.00	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	0.05	0.38	0.64	< 0.005	0.02	—	0.02	0.01	—	0.01	138
Onsite truck	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	0.07	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	22.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1

Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.60. Dam Control Building: Reinforced Concrete Foundation (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	3.25	14.2	0.02	0.13	—	0.13	0.12	—	0.12	2,287
Onsite truck	0.00	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	0.03	0.20	0.85	< 0.005	0.01	—	0.01	0.01	—	0.01	138
Onsite truck	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	0.04	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	22.8

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.61. Dam Control Building: Metal Frame Roofing (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.52	4.76	4.83	0.01	0.20	—	0.20	0.18	—	0.18	1,408
Onsite truck	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	0.03	0.29	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	84.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	14.0
Onsite truck	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	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.62. Dam Control Building: Metal Frame Roofing (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.69	7.26	0.01	0.03	—	0.03	0.03	—	0.03	1,408
Onsite truck	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	0.04	0.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	84.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	14.0
Onsite truck	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	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.63. Dam Control Building: Ancillary Features (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	2.44	2.90	0.01	0.10	—	0.10	0.10	—	0.10	787
Onsite truck	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	0.15	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	47.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.85
Onsite truck	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	0.02	0.30	0.00	0.00	0.09	0.09	0.00	0.02	0.02	87.7
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	89.1
Hauling	0.01	0.50	0.23	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	390
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.36
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.37

Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	23.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.89
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.89
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.90

3.64. Dam Control Building: Ancillary Features (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.39	4.21	0.01	0.01	—	0.01	0.01	—	0.01	787
Onsite truck	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	0.02	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	47.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.85
Onsite truck	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	0.02	0.30	0.00	0.00	0.09	0.09	0.00	0.02	0.02	87.7

Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	89.1
Hauling	0.01	0.50	0.23	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	390
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.36
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.37
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	23.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.89
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.89
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.90

3.65. Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.45	16.9	17.3	0.06	0.80	—	0.80	0.73	—	0.73	6,247
Onsite truck	0.00	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	0.15	1.02	1.04	< 0.005	0.05	—	0.05	0.04	—	0.04	377
Onsite truck	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	0.19	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	62.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.66. Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	3.06	32.3	0.06	0.12	—	0.12	0.12	—	0.12	6,247
Onsite truck	0.00	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	0.18	1.95	< 0.005	0.01	—	0.01	0.01	—	0.01	377
Onsite truck	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	0.03	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	62.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.67. Downstream Outlet Works Piping and Vault: Structure Bkfl (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.03	13.3	14.4	0.06	0.48	—	0.48	0.44	—	0.44	6,535
Onsite truck	0.00	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	0.12	0.80	0.87	< 0.005	0.03	—	0.03	0.03	—	0.03	394
Onsite truck	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	0.15	0.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	65.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.68. Downstream Outlet Works Piping and Vault: Structure Bkfl (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.65	3.50	32.1	0.06	0.13	—	0.13	0.13	—	0.13	6,535
Onsite truck	0.00	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	0.21	1.94	< 0.005	0.01	—	0.01	0.01	—	0.01	394
Onsite truck	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	0.04	0.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	65.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.69. Downstream Outlet Works Piping and Vault: Reinforced Conc Structures (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.52	12.9	18.8	0.04	0.52	—	0.52	0.48	—	0.48	4,403
Onsite truck	0.00	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	0.37	3.10	4.54	0.01	0.13	—	0.13	0.12	—	0.12	1,062
Onsite truck	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	0.57	0.83	< 0.005	0.02	—	0.02	0.02	—	0.02	176
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5

Hauling	0.00	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	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	22.2
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.3
Hauling	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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.68
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.69
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.70. Downstream Outlet Works Piping and Vault: Reinforced Conc Structures (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	5.27	26.2	0.04	0.21	—	0.21	0.20	—	0.20	4,403
Onsite truck	0.00	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	0.19	1.27	6.31	0.01	0.05	—	0.05	0.05	—	0.05	1,062
Onsite truck	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	0.23	1.15	< 0.005	0.01	—	0.01	0.01	—	0.01	176

Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	22.2
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	22.3
Hauling	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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.68
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.69
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.71. Downstream Outlet Works Piping and Vault: Piping and Valves (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	7.28	9.50	0.01	0.25	—	0.25	0.23	—	0.23	1,335
Onsite truck	0.00	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	1.32	1.72	< 0.005	0.05	—	0.05	0.04	—	0.04	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.24	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	40.0
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.7
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.7
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.76
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.72. Downstream Outlet Works Piping and Vault: Piping and Valves (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.18	4.75	9.35	0.01	0.02	—	0.02	0.02	—	0.02	1,335
Onsite truck	0.00	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	0.03	0.86	1.69	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.16	0.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	40.0
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.7
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.7
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.76
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.77
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.73. Downstream Outlet Works Piping and Vault: Steel Casing (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	7.28	9.50	0.01	0.25	—	0.25	0.23	—	0.23	1,335
Onsite truck	0.00	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	0.05	0.44	0.57	< 0.005	0.02	—	0.02	0.01	—	0.01	80.5
Onsite truck	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	0.08	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.74. Downstream Outlet Works Piping and Vault: Steel Casing (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	4.75	9.35	0.01	0.02	—	0.02	0.02	—	0.02	1,335
Onsite truck	0.00	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	0.01	0.29	0.56	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	80.5
Onsite truck	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	0.05	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	13.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5

Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.75. Downstream Outlet Works Piping and Vault: Ladders and Platforms (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.81	2.94	0.01	0.12	—	0.12	0.11	—	0.11	787
Onsite truck	0.00	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	0.17	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	47.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.85

Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.76. Downstream Outlet Works Piping and Vault: Ladders and Platforms (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.39	4.21	0.01	0.01	—	0.01	0.01	—	0.01	787
Onsite truck	0.00	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	< 0.005	0.02	0.25	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	47.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.85
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.77. Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	2.97	3.43	0.01	0.11	—	0.11	0.10	—	0.10	1,604
Onsite truck	0.00	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	0.18	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	96.7
Onsite truck	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	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.0
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.78. Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.94	7.91	0.01	0.04	—	0.04	0.04	—	0.04	1,604
Onsite truck	0.00	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	0.01	0.06	0.48	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	96.7
Onsite truck	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	0.01	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.0
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56

Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.79. Downstream Outlet Works Piping and Vault: Dewatering (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.38	1.57	< 0.005	0.10	—	0.10	0.09	—	0.09	313
Onsite truck	0.00	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	0.14	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	18.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.12
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8

Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.80. Downstream Outlet Works Piping and Vault: Dewatering (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.38	1.57	< 0.005	0.10	—	0.10	0.09	—	0.09	313
Onsite truck	0.00	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	0.14	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	18.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	3.12
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.81. Downstream Outlet Works Piping and Vault: ARVs and Valves (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.43	2.64	0.01	0.09	—	0.09	0.08	—	0.08	1,206
Onsite truck	0.00	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	0.15	0.16	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	72.7
Onsite truck	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	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.0
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.10	4.99	2.35	0.03	0.05	0.96	1.01	0.05	0.27	0.32	3,967
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	0.01	0.31	0.14	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	239
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.92
Hauling	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.6

3.82. Downstream Outlet Works Piping and Vault: ARVs and Valves (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.74	5.95	0.01	0.03	—	0.03	0.03	—	0.03	1,206
Onsite truck	0.00	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	0.01	0.04	0.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	72.7
Onsite truck	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	0.01	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.0
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.10	4.99	2.35	0.03	0.05	0.96	1.01	0.05	0.27	0.32	3,967
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	0.01	0.31	0.14	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	239
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.92

Hauling	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.6

3.83. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.65	9.57	11.8	0.05	0.34	—	0.34	0.31	—	0.31	5,457
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.58	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	329
Onsite truck	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	0.11	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	54.5
Onsite truck	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	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46

Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.84. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.51	2.67	26.7	0.05	0.10	—	0.10	0.10	—	0.10	5,457
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.16	1.61	< 0.005	0.01	—	0.01	0.01	—	0.01	329
Onsite truck	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	0.03	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	54.5
Onsite truck	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	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.85. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.96	7.98	11.8	0.03	0.33	—	0.33	0.30	—	0.30	2,764
Onsite truck	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	0.48	0.71	< 0.005	0.02	—	0.02	0.02	—	0.02	167
Onsite truck	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	0.09	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	27.6

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.86. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	3.13	16.3	0.03	0.12	—	0.12	0.12	—	0.12	2,764
Onsite truck	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	0.03	0.19	0.98	< 0.005	0.01	—	0.01	0.01	—	0.01	167
Onsite truck	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	0.03	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	27.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.87. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.75	15.7	16.1	0.04	0.66	—	0.66	0.61	—	0.61	4,519
Onsite truck	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	0.95	0.97	< 0.005	0.04	—	0.04	0.04	—	0.04	272
Onsite truck	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	0.17	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	45.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.88. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	6.84	21.3	0.04	0.28	—	0.28	0.26	—	0.26	4,519
Onsite truck	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	0.05	0.41	1.29	< 0.005	0.02	—	0.02	0.02	—	0.02	272
Onsite truck	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	0.08	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	45.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.89. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.89	45.9	36.6	0.10	1.82	—	1.82	1.68	—	1.68	11,303
Dust From Material Movement	—	—	—	—	—	12.8	12.8	—	4.71	4.71	—
Onsite truck	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	0.29	2.77	2.21	0.01	0.11	—	0.11	0.10	—	0.10	681
Dust From Material Movement	—	—	—	—	—	0.77	0.77	—	0.28	0.28	—
Onsite truck	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	0.50	0.40	< 0.005	0.02	—	0.02	0.02	—	0.02	113

Dust From Material Movement	—	—	—	—	—	0.14	0.14	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	0.02	1.44	0.62	0.01	0.02	0.31	0.32	0.02	0.09	0.10	1,226
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	73.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.2

3.90. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	5.54	55.4	0.10	0.21	—	0.21	0.21	—	0.21	11,303

Dust From Material Movement	—	—	—	—	—	12.8	12.8	—	4.71	4.71	—
Onsite truck	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	0.33	3.34	0.01	0.01	—	0.01	0.01	—	0.01	681
Dust From Material Movement	—	—	—	—	—	0.77	0.77	—	0.28	0.28	—
Onsite truck	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	0.06	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	113
Dust From Material Movement	—	—	—	—	—	0.14	0.14	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	0.02	1.44	0.62	0.01	0.02	0.31	0.32	0.02	0.09	0.10	1,226
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	73.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.2

3.91. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.06	8.26	12.8	0.05	0.31	—	0.31	0.28	—	0.28	5,232
Onsite truck	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	0.50	0.77	< 0.005	0.02	—	0.02	0.02	—	0.02	315
Onsite truck	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	0.09	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	52.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.92. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	2.60	27.6	0.05	0.10	—	0.10	0.10	—	0.10	5,232
Onsite truck	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	0.03	0.16	1.66	< 0.005	0.01	—	0.01	0.01	—	0.01	315
Onsite truck	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	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	52.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.93. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.01	15.4	22.2	0.07	0.57	—	0.57	0.52	—	0.52	7,716
Onsite truck	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	0.93	1.34	< 0.005	0.03	—	0.03	0.03	—	0.03	465
Onsite truck	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	0.17	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	77.0
Onsite truck	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	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.94. Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.17	8.61	34.6	0.07	0.29	—	0.29	0.27	—	0.27	7,716

Onsite truck	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	0.52	2.09	< 0.005	0.02	—	0.02	0.02	—	0.02	465
Onsite truck	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	0.09	0.38	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	77.0
Onsite truck	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	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.95. Spillway Site Excavations (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.48	42.3	40.2	0.13	1.65	—	1.65	1.52	—	1.52	14,498
Dust From Material Movement	—	—	—	—	—	8.19	8.19	—	4.21	4.21	—
Onsite truck	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	0.99	7.61	7.23	0.02	0.30	—	0.30	0.27	—	0.27	2,610
Dust From Material Movement	—	—	—	—	—	1.48	1.48	—	0.76	0.76	—
Onsite truck	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	1.39	1.32	< 0.005	0.05	—	0.05	0.05	—	0.05	432
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	0.02	1.10	0.50	0.01	0.01	0.20	0.21	0.01	0.06	0.06	824

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	17.0
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.9
Hauling	< 0.005	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	148
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.81
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.80
Hauling	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	24.6

3.96. Spillway Site Excavations (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.37	7.11	71.1	0.13	0.27	—	0.27	0.27	—	0.27	14,498
Dust From Material Movement	—	—	—	—	—	8.19	8.19	—	4.21	4.21	—
Onsite truck	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	0.25	1.28	12.8	0.02	0.05	—	0.05	0.05	—	0.05	2,610
Dust From Material Movement	—	—	—	—	—	1.48	1.48	—	0.76	0.76	—
Onsite truck	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	0.23	2.34	< 0.005	0.01	—	0.01	0.01	—	0.01	432
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	0.02	1.10	0.50	0.01	0.01	0.20	0.21	0.01	0.06	0.06	824
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	17.0
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.9
Hauling	< 0.005	0.20	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	148
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.81
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.80
Hauling	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	24.6

3.97. Spillway Site Excavations (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	5.18	37.0	38.3	0.13	1.43	—	1.43	1.32	—	1.32	14,511
Dust From Material Movement	—	—	—	—	—	8.19	8.19	—	4.21	4.21	—
Onsite truck	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	0.64	4.56	4.73	0.02	0.18	—	0.18	0.16	—	0.16	1,789
Dust From Material Movement	—	—	—	—	—	1.01	1.01	—	0.52	0.52	—
Onsite truck	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	0.83	0.86	< 0.005	0.03	—	0.03	0.03	—	0.03	296
Dust From Material Movement	—	—	—	—	—	0.18	0.18	—	0.09	0.09	—
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	0.02	1.06	0.49	0.01	0.01	0.20	0.21	0.01	0.06	0.06	810
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.4
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.4
Hauling	< 0.005	0.13	0.06	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	99.9

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.88
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.89
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.5

3.98. Spillway Site Excavations (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.37	7.11	71.1	0.13	0.27	—	0.27	0.27	—	0.27	14,511
Dust From Material Movement	—	—	—	—	—	8.19	8.19	—	4.21	4.21	—
Onsite truck	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	0.17	0.88	8.77	0.02	0.03	—	0.03	0.03	—	0.03	1,789
Dust From Material Movement	—	—	—	—	—	1.01	1.01	—	0.52	0.52	—
Onsite truck	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	0.16	1.60	< 0.005	0.01	—	0.01	0.01	—	0.01	296
Dust From Material Movement	—	—	—	—	—	0.18	0.18	—	0.09	0.09	—

Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	0.02	1.06	0.49	0.01	0.01	0.20	0.21	0.01	0.06	0.06	810
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.4
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.4
Hauling	< 0.005	0.13	0.06	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	99.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.88
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.89
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	16.5

3.99. Rock Slope Stabilization (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.45	19.9	26.5	0.08	0.76	—	0.76	0.70	—	0.70	8,851
Onsite truck	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	0.15	1.20	1.61	0.01	0.05	—	0.05	0.04	—	0.04	537
Onsite truck	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	0.22	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	88.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.72
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.69
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.95
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.100. Rock Slope Stabilization (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	9.19	41.2	0.08	0.31	—	0.31	0.30	—	0.30	8,851
Onsite truck	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	0.08	0.56	2.50	0.01	0.02	—	0.02	0.02	—	0.02	537
Onsite truck	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	0.10	0.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	88.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.72
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.69
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.95
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.94
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.101. Rock Slope Stabilization (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.37	18.9	26.4	0.08	0.71	—	0.71	0.65	—	0.65	8,839
Onsite truck	0.00	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	2.37	18.9	26.4	0.08	0.71	—	0.71	0.65	—	0.65	8,839
Onsite truck	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	0.56	4.46	6.25	0.02	0.17	—	0.17	0.15	—	0.15	2,093
Onsite truck	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	0.81	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	347
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	21.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	21.9
Hauling	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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.62
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.102. Rock Slope Stabilization (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	9.43	41.2	0.08	0.32	—	0.32	0.30	—	0.30	8,839
Onsite truck	0.00	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	1.29	9.43	41.2	0.08	0.32	—	0.32	0.30	—	0.30	8,839
Onsite truck	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	2.23	9.76	0.02	0.08	—	0.08	0.07	—	0.07	2,093
Onsite truck	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	0.41	1.78	< 0.005	0.01	—	0.01	0.01	—	0.01	347
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.09	0.00	0.00	0.02	0.02	0.00	0.01	0.01	21.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	21.9
Hauling	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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	3.62
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.103. RCC Weir Support Block (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	8.90	69.3	71.5	0.18	2.82	—	2.82	2.60	—	2.60	18,611
Onsite truck	0.00	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	1.07	8.35	8.61	0.02	0.34	—	0.34	0.31	—	0.31	2,243
Onsite truck	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	0.20	1.52	1.57	< 0.005	0.06	—	0.06	0.06	—	0.06	371
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.9
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.81
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.104. RCC Weir Support Block (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.82	19.7	96.8	0.18	0.69	—	0.69	0.66	—	0.66	18,611
Onsite truck	0.00	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	0.34	2.37	11.7	0.02	0.08	—	0.08	0.08	—	0.08	2,243
Onsite truck	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	0.43	2.13	< 0.005	0.02	—	0.02	0.01	—	0.01	371
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.9
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.81
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.105. Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	8.90	69.3	71.5	0.18	2.82	—	2.82	2.60	—	2.60	18,611
Onsite truck	0.00	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	0.54	4.18	4.31	0.01	0.17	—	0.17	0.16	—	0.16	1,122
Onsite truck	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	0.76	0.79	< 0.005	0.03	—	0.03	0.03	—	0.03	186
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1

Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.106. Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.82	19.7	96.8	0.18	0.69	—	0.69	0.66	—	0.66	18,611
Onsite truck	0.00	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	0.17	1.18	5.83	0.01	0.04	—	0.04	0.04	—	0.04	1,122
Onsite truck	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	0.22	1.06	< 0.005	0.01	—	0.01	0.01	—	0.01	186

Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.107. Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.34	21.4	25.2	0.07	0.79	—	0.79	0.73	—	0.73	7,735
Onsite truck	0.00	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	2.34	21.4	25.2	0.07	0.79	—	0.79	0.73	—	0.73	7,735
Onsite truck	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	3.87	4.55	0.01	0.14	—	0.14	0.13	—	0.13	1,399
Onsite truck	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	0.71	0.83	< 0.005	0.03	—	0.03	0.02	—	0.02	232
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.4
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.72
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.108. Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	6.85	41.0	0.07	0.27	—	0.27	0.26	—	0.26	7,735
Onsite truck	0.00	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	1.11	6.85	41.0	0.07	0.27	—	0.27	0.26	—	0.26	7,735
Onsite truck	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	0.20	1.24	7.41	0.01	0.05	—	0.05	0.05	—	0.05	1,399
Onsite truck	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	0.23	1.35	< 0.005	0.01	—	0.01	0.01	—	0.01	232
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2

Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.4
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.72
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.109. Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.79	24.9	34.6	0.09	0.95	—	0.95	0.87	—	0.87	9,803
Onsite truck	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	0.17	1.50	2.09	0.01	0.06	—	0.06	0.05	—	0.05	591
Onsite truck	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	0.27	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	97.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.110. Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.24	7.38	54.2	0.09	0.29	—	0.29	0.28	—	0.28	9,803
Onsite truck	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	0.44	3.27	0.01	0.02	—	0.02	0.02	—	0.02	591
Onsite truck	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	0.08	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	97.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.111. Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.63	5.03	8.10	0.02	0.20	—	0.20	0.19	—	0.19	1,831
Onsite truck	0.00	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	0.63	5.03	8.10	0.02	0.20	—	0.20	0.19	—	0.19	1,831
Onsite truck	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	1.82	2.93	0.01	0.07	—	0.07	0.07	—	0.07	662
Onsite truck	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	0.33	0.53	< 0.005	0.01	—	0.01	0.01	—	0.01	110
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.112. Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	2.59	11.1	0.02	0.10	—	0.10	0.10	—	0.10	1,831
Onsite truck	0.00	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	0.39	2.59	11.1	0.02	0.10	—	0.10	0.10	—	0.10	1,831
Onsite truck	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	0.14	0.94	4.03	0.01	0.04	—	0.04	0.03	—	0.03	662
Onsite truck	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	0.17	0.73	< 0.005	0.01	—	0.01	0.01	—	0.01	110
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0

Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.113. Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.01	27.0	30.0	0.11	1.04	—	1.04	0.96	—	0.96	11,670
Onsite truck	0.00	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	4.01	27.0	30.0	0.11	1.04	—	1.04	0.96	—	0.96	11,670
Onsite truck	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	9.77	10.8	0.04	0.38	—	0.38	0.35	—	0.35	4,220
Onsite truck	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	1.78	1.98	0.01	0.07	—	0.07	0.06	—	0.06	699
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.114. Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	6.01	57.2	0.11	0.23	—	0.23	0.23	—	0.23	11,670
Onsite truck	0.00	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	1.14	6.01	57.2	0.11	0.23	—	0.23	0.23	—	0.23	11,670
Onsite truck	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	0.41	2.17	20.7	0.04	0.08	—	0.08	0.08	—	0.08	4,220
Onsite truck	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	0.40	3.78	0.01	0.02	—	0.02	0.02	—	0.02	699
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9

Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.115. Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.81	6.37	10.9	0.02	0.24	—	0.24	0.22	—	0.22	2,214
Onsite truck	0.00	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	6.37	10.9	0.02	0.24	—	0.24	0.22	—	0.22	2,214
Onsite truck	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	0.29	2.31	3.92	0.01	0.09	—	0.09	0.08	—	0.08	801
Onsite truck	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	0.42	0.72	< 0.005	0.02	—	0.02	0.01	—	0.01	133
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.116. Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.38	3.26	13.9	0.02	0.09	—	0.09	0.09	—	0.09	2,214
Onsite truck	0.00	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	0.38	3.26	13.9	0.02	0.09	—	0.09	0.09	—	0.09	2,214
Onsite truck	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	0.14	1.18	5.04	0.01	0.03	—	0.03	0.03	—	0.03	801
Onsite truck	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	0.22	0.92	< 0.005	0.01	—	0.01	0.01	—	0.01	133
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.117. Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.39	21.8	26.4	0.08	0.81	—	0.81	0.75	—	0.75	7,967
Onsite truck	0.00	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	2.39	21.8	26.4	0.08	0.81	—	0.81	0.75	—	0.75	7,967
Onsite truck	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	0.86	7.90	9.56	0.03	0.29	—	0.29	0.27	—	0.27	2,881
Onsite truck	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	0.16	1.44	1.75	< 0.005	0.05	—	0.05	0.05	—	0.05	477
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0

Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.118. Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	6.96	42.6	0.08	0.27	—	0.27	0.26	—	0.26	7,967
Onsite truck	0.00	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	1.13	6.96	42.6	0.08	0.27	—	0.27	0.26	—	0.26	7,967
Onsite truck	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	0.41	2.52	15.4	0.03	0.10	—	0.10	0.10	—	0.10	2,881
Onsite truck	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	0.46	2.81	< 0.005	0.02	—	0.02	0.02	—	0.02	477
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.119. Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	9.81	14.7	0.06	0.36	—	0.36	0.33	—	0.33	6,125
Onsite truck	0.00	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	1.28	9.81	14.7	0.06	0.36	—	0.36	0.33	—	0.33	6,125
Onsite truck	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	3.55	5.31	0.02	0.13	—	0.13	0.12	—	0.12	2,215
Onsite truck	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	0.65	0.97	< 0.005	0.02	—	0.02	0.02	—	0.02	367
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9

Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.120. Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	3.03	32.0	0.06	0.12	—	0.12	0.12	—	0.12	6,125
Onsite truck	0.00	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	0.58	3.03	32.0	0.06	0.12	—	0.12	0.12	—	0.12	6,125
Onsite truck	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	0.21	1.10	11.6	0.02	0.04	—	0.04	0.04	—	0.04	2,215
Onsite truck	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	0.20	2.11	< 0.005	0.01	—	0.01	0.01	—	0.01	367
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.121. Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.82	6.50	10.2	0.02	0.26	—	0.26	0.24	—	0.24	2,203
Onsite truck	0.00	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	6.50	10.2	0.02	0.26	—	0.26	0.24	—	0.24	2,203
Onsite truck	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	0.30	2.35	3.68	0.01	0.09	—	0.09	0.09	—	0.09	797
Onsite truck	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	0.43	0.67	< 0.005	0.02	—	0.02	0.02	—	0.02	132
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.122. Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	3.74	13.5	0.02	0.15	—	0.15	0.14	—	0.14	2,203
Onsite truck	0.00	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	0.55	3.74	13.5	0.02	0.15	—	0.15	0.14	—	0.14	2,203
Onsite truck	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	0.20	1.35	4.90	0.01	0.05	—	0.05	0.05	—	0.05	797
Onsite truck	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	0.25	0.89	< 0.005	0.01	—	0.01	0.01	—	0.01	132
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0

Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.123. Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.01	27.0	30.0	0.11	1.04	—	1.04	0.96	—	0.96	11,670
Onsite truck	0.00	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	4.01	27.0	30.0	0.11	1.04	—	1.04	0.96	—	0.96	11,670
Onsite truck	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	9.77	10.8	0.04	0.38	—	0.38	0.35	—	0.35	4,220
Onsite truck	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	1.78	1.98	0.01	0.07	—	0.07	0.06	—	0.06	699
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.124. Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.14	6.01	57.2	0.11	0.23	—	0.23	0.23	—	0.23	11,670
Onsite truck	0.00	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	1.14	6.01	57.2	0.11	0.23	—	0.23	0.23	—	0.23	11,670
Onsite truck	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	0.41	2.17	20.7	0.04	0.08	—	0.08	0.08	—	0.08	4,220
Onsite truck	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	0.40	3.78	0.01	0.02	—	0.02	0.02	—	0.02	699
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9

Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.125. Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.16	9.15	16.4	0.03	0.35	—	0.35	0.32	—	0.32	3,570
Onsite truck	0.00	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	1.16	9.15	16.4	0.03	0.35	—	0.35	0.32	—	0.32	3,570
Onsite truck	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	3.31	5.91	0.01	0.13	—	0.13	0.12	—	0.12	1,291
Onsite truck	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	0.60	1.08	< 0.005	0.02	—	0.02	0.02	—	0.02	214
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.126. Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.50	3.92	22.1	0.03	0.12	—	0.12	0.11	—	0.11	3,570
Onsite truck	0.00	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	0.50	3.92	22.1	0.03	0.12	—	0.12	0.11	—	0.11	3,570
Onsite truck	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	1.42	8.00	0.01	0.04	—	0.04	0.04	—	0.04	1,291
Onsite truck	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	0.26	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	214
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.127. Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.39	21.8	26.4	0.08	0.81	—	0.81	0.75	—	0.75	7,967
Onsite truck	0.00	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	2.39	21.8	26.4	0.08	0.81	—	0.81	0.75	—	0.75	7,967
Onsite truck	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	0.86	7.90	9.56	0.03	0.29	—	0.29	0.27	—	0.27	2,881
Onsite truck	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	0.16	1.44	1.75	< 0.005	0.05	—	0.05	0.05	—	0.05	477
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0

Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.128. Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	6.96	42.6	0.08	0.27	—	0.27	0.26	—	0.26	7,967
Onsite truck	0.00	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	1.13	6.96	42.6	0.08	0.27	—	0.27	0.26	—	0.26	7,967
Onsite truck	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	0.41	2.52	15.4	0.03	0.10	—	0.10	0.10	—	0.10	2,881
Onsite truck	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	0.46	2.81	< 0.005	0.02	—	0.02	0.02	—	0.02	477
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.129. Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	6.32	12.3	0.02	0.20	—	0.20	0.19	—	0.19	2,650
Onsite truck	0.00	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	0.67	6.32	12.3	0.02	0.20	—	0.20	0.19	—	0.19	2,650
Onsite truck	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	2.29	4.45	0.01	0.07	—	0.07	0.07	—	0.07	959
Onsite truck	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	0.42	0.81	< 0.005	0.01	—	0.01	0.01	—	0.01	159
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9

Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.130. Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	1.30	16.7	0.02	0.05	—	0.05	0.05	—	0.05	2,650
Onsite truck	0.00	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	0.25	1.30	16.7	0.02	0.05	—	0.05	0.05	—	0.05	2,650
Onsite truck	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	0.47	6.04	0.01	0.02	—	0.02	0.02	—	0.02	959
Onsite truck	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	0.09	1.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	159
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	32.7
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	32.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.42
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.131. Wall Transitions: Left Secant Pile Walls (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.76	13.3	20.2	0.06	0.52	—	0.52	0.48	—	0.48	6,676
Onsite truck	0.00	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	0.80	1.22	< 0.005	0.03	—	0.03	0.03	—	0.03	402
Onsite truck	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	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	66.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.132. Wall Transitions: Left Secant Pile Walls (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	4.25	36.1	0.06	0.16	—	0.16	0.16	—	0.16	6,676
Onsite truck	0.00	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	0.05	0.26	2.18	< 0.005	0.01	—	0.01	0.01	—	0.01	402
Onsite truck	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	0.05	0.40	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	66.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.133. Wall Transitions: Right Secant Pile Wall (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.76	13.3	20.2	0.06	0.52	—	0.52	0.48	—	0.48	6,676
Onsite truck	0.00	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	0.80	1.22	< 0.005	0.03	—	0.03	0.03	—	0.03	402
Onsite truck	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	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	66.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5

Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.134. Wall Transitions: Right Secant Pile Wall (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	4.25	36.1	0.06	0.16	—	0.16	0.16	—	0.16	6,676
Onsite truck	0.00	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	0.05	0.26	2.18	< 0.005	0.01	—	0.01	0.01	—	0.01	402
Onsite truck	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	0.05	0.40	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	66.6

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.135. Right Closure Wall: Work Platform Construction (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.99	22.2	22.2	0.07	0.88	—	0.88	0.81	—	0.81	7,717
Onsite truck	0.00	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	0.18	1.34	1.34	< 0.005	0.05	—	0.05	0.05	—	0.05	465
Onsite truck	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	0.24	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	77.0
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.136. Right Closure Wall: Work Platform Construction (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.76	4.07	37.9	0.07	0.16	—	0.16	0.16	—	0.16	7,717
Onsite truck	0.00	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	0.05	0.25	2.28	< 0.005	0.01	—	0.01	0.01	—	0.01	465
Onsite truck	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	0.04	0.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	77.0
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.137. Right Closure Wall: Secant Pile Wall (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	17.2	23.5	0.07	0.67	—	0.67	0.62	—	0.62	7,914
Onsite truck	0.00	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	2.19	17.2	23.5	0.07	0.67	—	0.67	0.62	—	0.62	7,914
Onsite truck	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	0.40	3.15	4.32	0.01	0.12	—	0.12	0.11	—	0.11	1,453
Onsite truck	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	0.58	0.79	< 0.005	0.02	—	0.02	0.02	—	0.02	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.0
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.138. Right Closure Wall: Secant Pile Wall (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	4.86	42.2	0.07	0.19	—	0.19	0.18	—	0.18	7,914
Onsite truck	0.00	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	0.87	4.86	42.2	0.07	0.19	—	0.19	0.18	—	0.18	7,914
Onsite truck	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	0.89	7.74	0.01	0.03	—	0.03	0.03	—	0.03	1,453
Onsite truck	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	0.16	1.41	< 0.005	0.01	—	0.01	0.01	—	0.01	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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.0
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.139. Right Closure Wall: Backfill Concrete (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.70	5.75	9.48	0.02	0.23	—	0.23	0.21	—	0.21	2,080
Onsite truck	0.00	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	0.35	0.57	< 0.005	0.01	—	0.01	0.01	—	0.01	125
Onsite truck	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	0.06	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.140. Right Closure Wall: Backfill Concrete (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.43	2.84	12.9	0.02	0.11	—	0.11	0.10	—	0.10	2,080
Onsite truck	0.00	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	0.03	0.17	0.78	< 0.005	0.01	—	0.01	0.01	—	0.01	125
Onsite truck	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	0.03	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	20.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.141. Wall Type 2 - Left: Leveling Concrete (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	5.18	8.09	0.02	0.21	—	0.21	0.19	—	0.19	1,830
Onsite truck	0.00	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	0.31	0.49	< 0.005	0.01	—	0.01	0.01	—	0.01	110
Onsite truck	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	0.06	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	18.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5

Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.142. Wall Type 2 - Left: Leveling Concrete (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	2.59	11.1	0.02	0.10	—	0.10	0.10	—	0.10	1,830
Onsite truck	0.00	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	0.16	0.67	< 0.005	0.01	—	0.01	0.01	—	0.01	110
Onsite truck	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	0.03	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	18.3

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.143. Wall Type 2 - Left: 1 Inch Concrete Wall (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.47	23.5	26.6	0.08	0.87	—	0.87	0.80	—	0.80	7,963
Onsite truck	0.00	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	0.15	1.41	1.61	< 0.005	0.05	—	0.05	0.05	—	0.05	480
Onsite truck	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	0.26	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	79.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.144. Wall Type 2 - Left: 1 Inch Concrete Wall (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.13	6.98	42.6	0.08	0.28	—	0.28	0.26	—	0.26	7,963
Onsite truck	0.00	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	0.07	0.42	2.57	< 0.005	0.02	—	0.02	0.02	—	0.02	480
Onsite truck	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	0.08	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	79.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.145. Wall Type 2 - Left: 2.5 Inch Concrete Wall (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.34	22.5	26.0	0.07	0.83	—	0.83	0.77	—	0.77	7,833
Onsite truck	0.00	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	0.14	1.35	1.57	< 0.005	0.05	—	0.05	0.05	—	0.05	472
Onsite truck	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	0.25	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	78.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.146. Wall Type 2 - Left: 2.5 Inch Concrete Wall (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	5.99	42.0	0.07	0.24	—	0.24	0.23	—	0.23	7,833
Onsite truck	0.00	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	0.06	0.36	2.53	< 0.005	0.01	—	0.01	0.01	—	0.01	472
Onsite truck	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	0.07	0.46	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	78.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5

Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.147. Wall Type 2 - Left: Concrete Footing (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.47	23.5	26.6	0.08	0.87	—	0.87	0.80	—	0.80	7,963
Onsite truck	0.00	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	0.15	1.41	1.61	< 0.005	0.05	—	0.05	0.05	—	0.05	480
Onsite truck	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	0.26	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	79.5

Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.148. Wall Type 2 - Left: Concrete Footing (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	6.98	42.6	0.08	0.28	—	0.28	0.26	—	0.26	7,963
Onsite truck	0.00	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	0.07	0.42	2.57	< 0.005	0.02	—	0.02	0.02	—	0.02	480
Onsite truck	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	0.08	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	79.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.149. Wall Type 2 - Left: Backfill (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	4.28	28.5	28.3	0.11	1.02	—	1.02	0.94	—	0.94	11,586
Onsite truck	0.00	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	4.28	28.5	28.3	0.11	1.02	—	1.02	0.94	—	0.94	11,586
Onsite truck	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	0.52	3.44	3.41	0.01	0.12	—	0.12	0.11	—	0.11	1,397
Onsite truck	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	0.63	0.62	< 0.005	0.02	—	0.02	0.02	—	0.02	231
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.150. Wall Type 2 - Left: Backfill (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.73	18.3	39.9	0.11	0.58	—	0.58	0.54	—	0.54	11,586
Onsite truck	0.00	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	2.73	18.3	39.9	0.11	0.58	—	0.58	0.54	—	0.54	11,586
Onsite truck	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	2.21	4.81	0.01	0.07	—	0.07	0.06	—	0.06	1,397
Onsite truck	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	0.40	0.88	< 0.005	0.01	—	0.01	0.01	—	0.01	231
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8

Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.151. Wall Type 2 - Left: Reinforced Concrete Wall (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.47	23.5	26.6	0.08	0.87	—	0.87	0.80	—	0.80	7,963
Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.02	0.02	—
Onsite truck	0.00	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	0.45	4.31	4.89	0.01	0.16	—	0.16	0.15	—	0.15	1,462
Dust From Material Movement	—	—	—	—	—	0.02	0.02	—	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.79	0.89	< 0.005	0.03	—	0.03	0.03	—	0.03	242
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.0
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.152. Wall Type 2 - Left: Reinforced Concrete Wall (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	6.98	42.6	0.08	0.28	—	0.28	0.26	—	0.26	7,963
Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.02	0.02	—
Onsite truck	0.00	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	0.21	1.28	7.82	0.01	0.05	—	0.05	0.05	—	0.05	1,462
Dust From Material Movement	—	—	—	—	—	0.02	0.02	—	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.23	1.43	< 0.005	0.01	—	0.01	0.01	—	0.01	242
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8

Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	16.9
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	17.0
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.81
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.153. Wall Type 2 - Left: Footing Rock Anchors and Backfill (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.37	37.5	41.1	0.15	1.36	—	1.36	1.25	—	1.25	16,817
Onsite truck	0.00	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	5.37	37.5	41.1	0.15	1.36	—	1.36	1.25	—	1.25	16,817
Onsite truck	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	0.65	4.52	4.96	0.02	0.16	—	0.16	0.15	—	0.15	2,027

Onsite truck	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	0.82	0.90	< 0.005	0.03	—	0.03	0.03	—	0.03	336
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.154. Wall Type 2 - Left: Footing Rock Anchors and Backfill (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.62	10.5	85.5	0.15	0.32	—	0.32	0.32	—	0.32	16,817
Onsite truck	0.00	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	1.62	10.5	85.5	0.15	0.32	—	0.32	0.32	—	0.32	16,817
Onsite truck	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	0.20	1.27	10.3	0.02	0.04	—	0.04	0.04	—	0.04	2,027
Onsite truck	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	0.23	1.88	< 0.005	0.01	—	0.01	0.01	—	0.01	336
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1

Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.155. Wall Type 2 - Wall Right: Leveling Concrete (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.47	23.5	26.6	0.08	0.87	—	0.87	0.80	—	0.80	7,963
Onsite truck	0.00	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	0.15	1.41	1.61	< 0.005	0.05	—	0.05	0.05	—	0.05	480
Onsite truck	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	0.26	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	79.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8

Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.156. Wall Type 2 - Wall Right: Leveling Concrete (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	6.98	42.6	0.08	0.28	—	0.28	0.26	—	0.26	7,963
Onsite truck	0.00	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	0.07	0.42	2.57	< 0.005	0.02	—	0.02	0.02	—	0.02	480
Onsite truck	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	0.08	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	79.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.157. Wall Type 2 - Wall Right: 1 Inch Wall (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.47	23.5	26.6	0.08	0.87	—	0.87	0.80	—	0.80	7,963
Onsite truck	0.00	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	0.15	1.41	1.61	< 0.005	0.05	—	0.05	0.05	—	0.05	480
Onsite truck	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	0.26	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	79.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.158. Wall Type 2 - Wall Right: 1 Inch Wall (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	6.98	42.6	0.08	0.28	—	0.28	0.26	—	0.26	7,963
Onsite truck	0.00	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	0.07	0.42	2.57	< 0.005	0.02	—	0.02	0.02	—	0.02	480
Onsite truck	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	0.08	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	79.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.159. Wall Type 2 - Wall Right: 2.5 Inch Wall (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.47	23.5	26.6	0.08	0.87	—	0.87	0.80	—	0.80	7,963
Onsite truck	0.00	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	0.15	1.41	1.61	< 0.005	0.05	—	0.05	0.05	—	0.05	480
Onsite truck	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	0.26	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	79.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56

Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.160. Wall Type 2 - Wall Right: 2.5 Inch Wall (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	6.98	42.6	0.08	0.28	—	0.28	0.26	—	0.26	7,963
Onsite truck	0.00	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	0.07	0.42	2.57	< 0.005	0.02	—	0.02	0.02	—	0.02	480
Onsite truck	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	0.08	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	79.5
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8

Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.161. Wall Type 2 - Wall Right: Concrete Footing (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.47	23.5	26.6	0.08	0.87	—	0.87	0.80	—	0.80	7,963
Onsite truck	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	0.15	1.41	1.61	< 0.005	0.05	—	0.05	0.05	—	0.05	480
Onsite truck	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	0.26	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	79.5
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.162. Wall Type 2 - Wall Right: Concrete Footing (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	6.98	42.6	0.08	0.28	—	0.28	0.26	—	0.26	7,963

Onsite truck	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	0.42	2.57	< 0.005	0.02	—	0.02	0.02	—	0.02	480
Onsite truck	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	0.08	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	79.5
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.163. Wall Type 2 - Wall Right: Backfill (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.28	28.5	28.3	0.11	1.02	—	1.02	0.94	—	0.94	11,586
Onsite truck	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	0.26	1.72	1.71	0.01	0.06	—	0.06	0.06	—	0.06	698
Onsite truck	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	0.31	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	116
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	0.03	1.82	0.84	0.01	0.02	0.34	0.36	0.02	0.10	0.11	1,395
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	84.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.92

Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.9

3.164. Wall Type 2 - Wall Right: Backfill (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	7.91	57.9	0.11	0.22	—	0.22	0.22	—	0.22	11,586
Onsite truck	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	0.48	3.49	0.01	0.01	—	0.01	0.01	—	0.01	698
Onsite truck	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	0.09	0.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	116
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	0.03	1.82	0.84	0.01	0.02	0.34	0.36	0.02	0.10	0.11	1,395
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56

Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	84.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.92
Hauling	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.9

3.165. Wall Type 3 - Left: Roller Compacted Concrete (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.16	73.8	73.2	0.18	3.04	—	3.04	2.80	—	2.80	18,600
Onsite truck	0.00	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	9.16	73.8	73.2	0.18	3.04	—	3.04	2.80	—	2.80	18,600
Onsite truck	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	1.10	8.90	8.82	0.02	0.37	—	0.37	0.34	—	0.34	2,242
Onsite truck	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	0.20	1.62	1.61	< 0.005	0.07	—	0.07	0.06	—	0.06	371
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.166. Wall Type 3 - Left: Roller Compacted Concrete (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.83	19.7	96.8	0.18	0.70	—	0.70	0.67	—	0.67	18,600
Onsite truck	0.00	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	2.83	19.7	96.8	0.18	0.70	—	0.70	0.67	—	0.67	18,600
Onsite truck	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	0.34	2.37	11.7	0.02	0.08	—	0.08	0.08	—	0.08	2,242
Onsite truck	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	0.43	2.13	< 0.005	0.02	—	0.02	0.01	—	0.01	371
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.1
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.1
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.84
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.84
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.167. Wall Type 3 - Left: CVC Facing (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.69	26.2	30.5	0.08	0.96	—	0.96	0.88	—	0.88	8,570
Onsite truck	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	1.58	1.84	< 0.005	0.06	—	0.06	0.05	—	0.05	517
Onsite truck	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	0.29	0.34	< 0.005	0.01	—	0.01	0.01	—	0.01	85.5
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.168. Wall Type 3 - Left: CVC Facing (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.31	11.4	46.8	0.08	0.31	—	0.31	0.29	—	0.29	8,570
Onsite truck	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	0.08	0.68	2.82	< 0.005	0.02	—	0.02	0.02	—	0.02	517
Onsite truck	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	0.12	0.51	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	85.5
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.169. Wall Type 3 - Right: Roller Compacted Concrete (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.16	73.8	73.2	0.18	3.04	—	3.04	2.80	—	2.80	18,600
Onsite truck	0.00	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	9.16	73.8	73.2	0.18	3.04	—	3.04	2.80	—	2.80	18,600
Onsite truck	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	1.13	9.10	9.02	0.02	0.37	—	0.37	0.34	—	0.34	2,293
Onsite truck	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	0.21	1.66	1.65	< 0.005	0.07	—	0.07	0.06	—	0.06	380
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.4
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.4
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.88
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.170. Wall Type 3 - Right: Roller Compacted Concrete (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.83	19.7	96.8	0.18	0.70	—	0.70	0.67	—	0.67	18,600
Onsite truck	0.00	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	2.83	19.7	96.8	0.18	0.70	—	0.70	0.67	—	0.67	18,600
Onsite truck	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	2.43	11.9	0.02	0.09	—	0.09	0.08	—	0.08	2,293
Onsite truck	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	0.44	2.18	< 0.005	0.02	—	0.02	0.01	—	0.01	380
Onsite truck	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	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.4
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.4
Hauling	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.88
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.89
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.171. Wall Type 3 - Right: CVC Facing (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.53	24.0	27.0	0.08	0.89	—	0.89	0.82	—	0.82	8,033
Onsite truck	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	0.15	1.45	1.63	< 0.005	0.05	—	0.05	0.05	—	0.05	484
Onsite truck	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	0.26	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	80.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3

Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.172. Wall Type 3 - Right: CVC Facing (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	7.50	43.0	0.08	0.30	—	0.30	0.28	—	0.28	8,033
Onsite truck	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	0.45	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	484
Onsite truck	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	0.08	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	80.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.173. Wall Type 3 - Right: Backfill (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.28	28.5	28.3	0.11	1.02	—	1.02	0.94	—	0.94	11,586
Onsite truck	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	0.26	1.72	1.71	0.01	0.06	—	0.06	0.06	—	0.06	698

Onsite truck	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	0.31	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	116
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.174. Wall Type 3 - Right: Backfill (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.12	7.91	57.9	0.11	0.22	—	0.22	0.22	—	0.22	11,586
Onsite truck	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	0.48	3.49	0.01	0.01	—	0.01	0.01	—	0.01	698
Onsite truck	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	0.09	0.64	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	116
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.175. Stilling Basin: RCC (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.16	73.8	73.2	0.18	3.04	—	3.04	2.80	—	2.80	18,600
Onsite truck	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	0.55	4.45	4.41	0.01	0.18	—	0.18	0.17	—	0.17	1,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.81	0.81	< 0.005	0.03	—	0.03	0.03	—	0.03	186
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.176. Stilling Basin: RCC (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.83	19.7	96.8	0.18	0.70	—	0.70	0.67	—	0.67	18,600
Onsite truck	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	0.17	1.19	5.83	0.01	0.04	—	0.04	0.04	—	0.04	1,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.22	1.06	< 0.005	0.01	—	0.01	0.01	—	0.01	186
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.177. Stilling Basin: Upstream/Downstream CVC Facing (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.53	24.0	27.0	0.08	0.89	—	0.89	0.82	—	0.82	8,033
Onsite truck	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	0.15	1.45	1.63	< 0.005	0.05	—	0.05	0.05	—	0.05	484
Onsite truck	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	0.26	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	80.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.178. Stilling Basin: Upstream/Downstream CVC Facing (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	7.50	43.0	0.08	0.30	—	0.30	0.28	—	0.28	8,033
Onsite truck	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	0.45	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	484
Onsite truck	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	0.08	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	80.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.179. Stilling Basin: Basin Steps (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.53	24.0	27.0	0.08	0.89	—	0.89	0.82	—	0.82	8,033

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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	1.45	1.63	< 0.005	0.05	—	0.05	0.05	—	0.05	484
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	80.2
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.180. Stilling Basin: Basin Steps (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.20	7.50	43.0	0.08	0.30	—	0.30	0.28	—	0.28	8,033
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.45	2.59	< 0.005	0.02	—	0.02	0.02	—	0.02	484
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	80.2
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
Offsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.181. Stilling Basin: Chute Blocks (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.03	19.6	21.5	0.06	0.72	—	0.72	0.66	—	0.66	6,610
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.12	1.18	1.30	< 0.005	0.04	—	0.04	0.04	—	0.04	398
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.22	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	66.0
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.182. Stilling Basin: Chute Blocks (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.97	6.03	35.0	0.06	0.24	—	0.24	0.23	—	0.23	6,610
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.36	2.11	< 0.005	0.01	—	0.01	0.01	—	0.01	398
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.39	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	66.0
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.183. Stilling Basin: Dentated Sill (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.22	21.4	23.1	0.07	0.79	—	0.79	0.73	—	0.73	7,107
Onsite truck	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	0.13	1.29	1.39	< 0.005	0.05	—	0.05	0.04	—	0.04	428
Onsite truck	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	0.24	0.25	< 0.005	0.01	—	0.01	0.01	—	0.01	70.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.184. Stilling Basin: Dentated Sill (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	6.27	37.5	0.07	0.25	—	0.25	0.24	—	0.24	7,107
Onsite truck	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	0.38	2.26	< 0.005	0.01	—	0.01	0.01	—	0.01	428
Onsite truck	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	0.07	0.41	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	70.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.185. Spillway Slab Construction: RCC Foundation Support Block (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	9.16	73.8	73.2	0.18	3.04	—	3.04	2.80	—	2.80	18,600
Onsite truck	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	0.55	4.45	4.41	0.01	0.18	—	0.18	0.17	—	0.17	1,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.81	0.81	< 0.005	0.03	—	0.03	0.03	—	0.03	186
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.186. Spillway Slab Construction: RCC Foundation Support Block (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.83	19.7	96.8	0.18	0.70	—	0.70	0.67	—	0.67	18,600
Onsite truck	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	0.17	1.19	5.83	0.01	0.04	—	0.04	0.04	—	0.04	1,121
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.22	1.06	< 0.005	0.01	—	0.01	0.01	—	0.01	186
Onsite truck	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.187. Spillway Slab Construction: Spillway Chute Slab (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	24.5	27.4	0.08	0.91	—	0.91	0.84	—	0.84	8,104
Onsite truck	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	1.48	1.65	< 0.005	0.06	—	0.06	0.05	—	0.05	488
Onsite truck	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	0.27	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	80.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.188. Spillway Slab Construction: Spillway Chute Slab (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27	8.02	43.4	0.08	0.32	—	0.32	0.30	—	0.30	8,104
Onsite truck	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	0.08	0.48	2.62	< 0.005	0.02	—	0.02	0.02	—	0.02	488
Onsite truck	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	0.09	0.48	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	80.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.189. Spillway Slab Construction: Stilling Basin Slab (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.60	24.5	27.4	0.08	0.91	—	0.91	0.84	—	0.84	8,104
Onsite truck	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	1.48	1.65	< 0.005	0.06	—	0.06	0.05	—	0.05	488
Onsite truck	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	0.27	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	80.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.190. Spillway Slab Construction: Stilling Basin Slab (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27	8.02	43.4	0.08	0.32	—	0.32	0.30	—	0.30	8,104
Onsite truck	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	0.08	0.48	2.62	< 0.005	0.02	—	0.02	0.02	—	0.02	488
Onsite truck	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	0.09	0.48	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	80.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.191. Spillway Slab Construction: Zone B (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	8.92	12.8	0.05	0.34	—	0.34	0.31	—	0.31	5,231
Onsite truck	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	0.54	0.77	< 0.005	0.02	—	0.02	0.02	—	0.02	315
Onsite truck	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	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	52.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.192. Spillway Slab Construction: Zone B (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	2.60	27.6	0.05	0.10	—	0.10	0.10	—	0.10	5,231
Onsite truck	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	0.03	0.16	1.66	< 0.005	0.01	—	0.01	0.01	—	0.01	315
Onsite truck	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	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	52.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.193. Spillway Slab Construction: Zone C (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	8.92	12.8	0.05	0.34	—	0.34	0.31	—	0.31	5,231
Onsite truck	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	0.54	0.77	< 0.005	0.02	—	0.02	0.02	—	0.02	315
Onsite truck	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	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	52.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.194. Spillway Slab Construction: Zone C (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	2.60	27.6	0.05	0.10	—	0.10	0.10	—	0.10	5,231
Onsite truck	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	0.03	0.16	1.66	< 0.005	0.01	—	0.01	0.01	—	0.01	315
Onsite truck	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	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	52.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.195. Spillway Drains and Cleanouts: Wall Drains & Cleanouts (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.44	4.58	0.01	0.12	—	0.12	0.11	—	0.11	790
Onsite truck	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	0.15	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	47.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.88
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.196. Spillway Drains and Cleanouts: Wall Drains & Cleanouts (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	790
Onsite truck	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	0.12	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	47.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.88
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.197. Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.44	4.58	0.01	0.12	—	0.12	0.11	—	0.11	790
Onsite truck	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	0.15	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	47.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.88
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.198. Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	790
Onsite truck	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	0.12	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	47.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.88
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.199. Spillway Drains and Cleanouts: Transverse Drains & Cleanouts (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.44	4.58	0.01	0.12	—	0.12	0.11	—	0.11	790
Onsite truck	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	0.15	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	47.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.88
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.200. Spillway Drains and Cleanouts: Transverse Drains & Cleanouts (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	790
Onsite truck	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	0.12	0.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	47.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.88
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.201. Spillway Drains and Cleanouts: Drain Gravel (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.72	13.4	12.1	0.03	0.68	—	0.68	0.62	—	0.62	3,699
Onsite truck	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	0.81	0.73	< 0.005	0.04	—	0.04	0.04	—	0.04	223
Onsite truck	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	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	36.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.202. Spillway Drains and Cleanouts: Drain Gravel (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	1.82	19.8	0.03	0.07	—	0.07	0.07	—	0.07	3,699
Onsite truck	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	0.11	1.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	223
Onsite truck	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	0.02	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	36.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.203. Spillway Drains and Cleanouts: Filter Sand (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.72	13.4	12.1	0.03	0.68	—	0.68	0.62	—	0.62	3,699
Onsite truck	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	0.81	0.73	< 0.005	0.04	—	0.04	0.04	—	0.04	223
Onsite truck	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	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	36.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.204. Spillway Drains and Cleanouts: Filter Sand (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	1.82	19.8	0.03	0.07	—	0.07	0.07	—	0.07	3,699
Onsite truck	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	0.11	1.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	223
Onsite truck	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	0.02	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	36.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.205. Surface Ditch from Landfill: Excavation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.55	4.20	5.12	0.01	0.38	—	0.38	0.35	—	0.35	795
Onsite truck	0.00	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	0.03	0.25	0.31	< 0.005	0.02	—	0.02	0.02	—	0.02	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.93
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.206. Surface Ditch from Landfill: Excavation (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	795
Onsite truck	0.00	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	0.01	0.12	0.33	< 0.005	< 0.005	—	< 0.005	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.93
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.207. Surface Ditch from Landfill: Drop Structures (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	4.20	5.12	0.01	0.38	—	0.38	0.35	—	0.35	795
Onsite truck	0.00	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	0.03	0.25	0.31	< 0.005	0.02	—	0.02	0.02	—	0.02	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.93
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1

Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.208. Surface Ditch from Landfill: Drop Structures (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	795
Onsite truck	0.00	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	0.01	0.12	0.33	< 0.005	< 0.005	—	< 0.005	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	7.93

Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.209. Surface Ditch from Landfill: Ditch Lining (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	10.3	13.4	0.04	0.41	—	0.41	0.38	—	0.38	4,406
Onsite truck	0.00	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	1.28	10.3	13.4	0.04	0.41	—	0.41	0.38	—	0.38	4,406
Onsite truck	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	0.15	1.24	1.61	< 0.005	0.05	—	0.05	0.05	—	0.05	531
Onsite truck	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	0.23	0.29	< 0.005	0.01	—	0.01	0.01	—	0.01	87.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.9
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.81
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.210. Surface Ditch from Landfill: Ditch Lining (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	2.16	23.3	0.04	0.08	—	0.08	0.08	—	0.08	4,406
Onsite truck	0.00	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	0.42	2.16	23.3	0.04	0.08	—	0.08	0.08	—	0.08	4,406
Onsite truck	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	0.05	0.26	2.81	< 0.005	0.01	—	0.01	0.01	—	0.01	531
Onsite truck	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	0.05	0.51	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	87.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2

Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	10.9
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.81
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.82
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.211. Downstream Apron: Concrete Apron (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.90	16.4	19.5	0.06	0.65	—	0.65	0.60	—	0.60	6,252
Onsite truck	0.00	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	0.99	1.18	< 0.005	0.04	—	0.04	0.04	—	0.04	377
Onsite truck	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	0.18	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	62.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.212. Downstream Apron: Concrete Apron (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.86	5.23	33.6	0.06	0.21	—	0.21	0.20	—	0.20	6,252
Onsite truck	0.00	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	0.05	0.31	2.02	< 0.005	0.01	—	0.01	0.01	—	0.01	377
Onsite truck	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	0.06	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	62.4
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.213. Downstream Apron: Zone C (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.09	8.92	12.8	0.05	0.34	—	0.34	0.31	—	0.31	5,231
Onsite truck	0.00	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	0.07	0.54	0.77	< 0.005	0.02	—	0.02	0.02	—	0.02	315
Onsite truck	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	0.10	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	52.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.214. Downstream Apron: Zone C (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	2.60	27.6	0.05	0.10	—	0.10	0.10	—	0.10	5,231
Onsite truck	0.00	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	0.03	0.16	1.66	< 0.005	0.01	—	0.01	0.01	—	0.01	315
Onsite truck	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	0.03	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	52.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57

Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.215. Downstream Apron: Riprap Apron (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	6.23	6.10	0.03	0.23	—	0.23	0.21	—	0.21	2,716
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	< 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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.38	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	164
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	27.1

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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.07	3.34	1.58	0.02	0.03	0.65	0.68	0.03	0.18	0.21	2,660
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	< 0.005	0.21	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	160
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.92
Hauling	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	26.5

3.216. Downstream Apron: Riprap Apron (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	2.43	13.2	0.03	0.09	—	0.09	0.09	—	0.09	2,716

Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	< 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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.80	< 0.005	0.01	—	0.01	0.01	—	0.01	164
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	27.1
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.07	3.34	1.58	0.02	0.03	0.65	0.68	0.03	0.18	0.21	2,660
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	< 0.005	0.21	0.10	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	160

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.92
Hauling	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	26.5

3.217. Downstream Apron: Riprap Bedding (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	6.23	6.10	0.03	0.23	—	0.23	0.21	—	0.21	2,716
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	< 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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.38	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	164
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	27.1
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.11	6.50	2.88	0.04	0.07	1.39	1.46	0.07	0.39	0.46	5,631
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	0.01	0.41	0.17	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	339
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.92
Hauling	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	56.1

3.218. Downstream Apron: Riprap Bedding (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	2.43	13.2	0.03	0.09	—	0.09	0.09	—	0.09	2,716
Dust From Material Movement	—	—	—	—	—	0.03	0.03	—	< 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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.15	0.80	< 0.005	0.01	—	0.01	0.01	—	0.01	164
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.03	0.15	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	27.1
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.11	6.50	2.88	0.04	0.07	1.39	1.46	0.07	0.39	0.46	5,631
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.56
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.57
Hauling	0.01	0.41	0.17	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	339
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.92
Hauling	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	56.1

3.219. Furnish and Install Electrical / Controls and Instrumentation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	5.09	7.10	0.01	0.42	—	0.42	0.39	—	0.39	1,126
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	5.09	7.10	0.01	0.42	—	0.42	0.39	—	0.39	1,126
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	2.15	3.00	< 0.005	0.18	—	0.18	0.16	—	0.16	475
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.39	0.55	< 0.005	0.03	—	0.03	0.03	—	0.03	78.7
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.03	1.87	0.88	0.01	0.02	0.37	0.39	0.02	0.10	0.12	1,504
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	0.03	1.93	0.89	0.01	0.02	0.37	0.39	0.02	0.10	0.12	1,502
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	38.2
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.4
Hauling	0.01	0.82	0.37	< 0.005	0.01	0.16	0.16	0.01	0.04	0.05	634
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.32
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.35
Hauling	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	105

3.220. Furnish and Install Electrical / Controls and Instrumentation (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	2.09	7.84	0.01	0.02	—	0.02	0.02	—	0.02	1,126

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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	2.09	7.84	0.01	0.02	—	0.02	0.02	—	0.02	1,126
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.88	3.31	< 0.005	0.01	—	0.01	0.01	—	0.01	475
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
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.16	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	78.7
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
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.03	1.87	0.88	0.01	0.02	0.37	0.39	0.02	0.10	0.12	1,504
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	0.03	1.93	0.89	0.01	0.02	0.37	0.39	0.02	0.10	0.12	1,502
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	38.2
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.4
Hauling	0.01	0.82	0.37	< 0.005	0.01	0.16	0.16	0.01	0.04	0.05	634
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.32
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.35
Hauling	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	105

3.221. Furnish and Install Aeration System (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	5.09	7.10	0.01	0.42	—	0.42	0.39	—	0.39	1,126
Onsite truck	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	0.04	0.31	0.43	< 0.005	0.03	—	0.03	0.02	—	0.02	67.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.06	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.2

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.222. Furnish and Install Aeration System (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	2.09	7.84	0.01	0.02	—	0.02	0.02	—	0.02	1,126
Onsite truck	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	0.13	0.47	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	67.9
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.46
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.48
Hauling	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.90
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.223. Part 1 Furnish and Install Erosion Control Measures (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.55	5.05	5.06	0.01	0.39	—	0.39	0.36	—	0.36	789
Onsite truck	0.00	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	0.55	5.05	5.06	0.01	0.39	—	0.39	0.36	—	0.36	789
Onsite truck	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	0.61	0.61	< 0.005	0.05	—	0.05	0.04	—	0.04	95.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.11	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	15.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.43	0.00	0.00	0.09	0.09	0.00	0.02	0.02	97.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	94.0
Hauling	0.00	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.4
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	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

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.88
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.224. Part 1 Furnish and Install Erosion Control Measures (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	789
Onsite truck	0.00	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	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	789
Onsite truck	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	0.23	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	95.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.04	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	15.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.43	0.00	0.00	0.09	0.09	0.00	0.02	0.02	97.8

Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	94.0
Hauling	0.00	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	92.8
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	93.8
Hauling	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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	11.4
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.88
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 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

3.225. Part 2 Furnish and Install Erosion Control Measures (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	2.44	4.58	0.01	0.12	—	0.12	0.11	—	0.11	790
Onsite truck	0.00	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	0.23	2.44	4.58	0.01	0.12	—	0.12	0.11	—	0.11	790
Onsite truck	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	1.03	1.93	< 0.005	0.05	—	0.05	0.05	—	0.05	333
Onsite truck	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	0.19	0.35	< 0.005	0.01	—	0.01	0.01	—	0.01	55.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3
Hauling	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	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	38.9
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.0
Hauling	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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.45
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.226. Part 2 Furnish and Install Erosion Control Measures (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	790
Onsite truck	0.00	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	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	790
Onsite truck	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	0.04	0.81	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	333
Onsite truck	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	0.15	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	55.2
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	95.8
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.5
Hauling	0.00	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	0.34	0.00	0.00	0.09	0.09	0.00	0.02	0.02	90.9
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	92.3

Hauling	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	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	38.9
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	39.0
Hauling	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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.45
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.227. Part 3 Furnish and Install Erosion Control Measures (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	4.20	5.12	0.01	0.38	—	0.38	0.35	—	0.35	795
Onsite truck	0.00	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	0.55	4.20	5.12	0.01	0.38	—	0.38	0.35	—	0.35	795
Onsite truck	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	1.77	2.16	< 0.005	0.16	—	0.16	0.15	—	0.15	335
Onsite truck	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	0.32	0.39	< 0.005	0.03	—	0.03	0.03	—	0.03	55.5
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	38.2
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.4
Hauling	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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.32
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.35
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.228. Part 3 Furnish and Install Erosion Control Measures (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.10	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	795
Onsite truck	0.00	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	1.93	5.52	0.01	0.01	—	0.01	0.01	—	0.01	795
Onsite truck	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	0.04	0.81	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	335
Onsite truck	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	0.15	0.43	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	55.5
Onsite truck	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	0.37	0.00	0.00	0.09	0.09	0.00	0.02	0.02	94.0
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	91.1
Hauling	0.00	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	0.32	0.00	0.00	0.09	0.09	0.00	0.02	0.02	89.2
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	90.9
Hauling	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	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	38.2
Vendor	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	38.4
Hauling	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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.32
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	6.35
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.229. Embankment Mitigation (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.65	61.2	56.1	0.09	2.71	—	2.71	2.50	—	2.50	9,861
Dust From Material Movement	—	—	—	—	—	34.1	34.1	—	17.0	17.0	—
Onsite truck	0.00	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	6.65	61.2	56.1	0.09	2.71	—	2.71	2.50	—	2.50	9,861
Dust From Material Movement	—	—	—	—	—	34.1	34.1	—	17.0	17.0	—
Onsite truck	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	3.98	36.6	33.6	0.06	1.63	—	1.63	1.50	—	1.50	5,905
Dust From Material Movement	—	—	—	—	—	20.4	20.4	—	10.2	10.2	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73	6.68	6.13	0.01	0.30	—	0.30	0.27	—	0.27	978
Dust From Material Movement	—	—	—	—	—	3.73	3.73	—	1.86	1.86	—
Onsite truck	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	0.15	2.38	0.00	0.00	0.03	0.03	0.00	0.00	0.00	572
Vendor	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	3.63	1.61	0.02	0.04	0.21	0.25	0.04	0.08	0.11	3,145
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.17	2.06	0.00	0.00	0.03	0.03	0.00	0.00	0.00	543
Vendor	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	3.77	1.62	0.02	0.04	0.21	0.25	0.04	0.08	0.11	3,140
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.29	0.00	0.00	0.02	0.02	0.00	0.00	0.00	330
Vendor	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	2.28	0.97	0.01	0.02	0.12	0.15	0.02	0.05	0.07	1,882
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.24	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	54.7
Vendor	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	0.42	0.18	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	312

3.230. Embankment Mitigation (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	9.36	53.2	0.09	0.30	—	0.30	0.29	—	0.29	9,861
Dust From Material Movement	—	—	—	—	—	34.1	34.1	—	17.0	17.0	—
Onsite truck	0.00	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	1.33	9.36	53.2	0.09	0.30	—	0.30	0.29	—	0.29	9,861
Dust From Material Movement	—	—	—	—	—	34.1	34.1	—	17.0	17.0	—
Onsite truck	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	0.80	5.61	31.8	0.06	0.18	—	0.18	0.17	—	0.17	5,905
Dust From Material Movement	—	—	—	—	—	20.4	20.4	—	10.2	10.2	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	1.02	5.81	0.01	0.03	—	0.03	0.03	—	0.03	978
Dust From Material Movement	—	—	—	—	—	3.73	3.73	—	1.86	1.86	—
Onsite truck	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	0.15	2.38	0.00	0.00	0.03	0.03	0.00	0.00	0.00	572
Vendor	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	3.63	1.61	0.02	0.04	0.21	0.25	0.04	0.08	0.11	3,145
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.17	2.06	0.00	0.00	0.03	0.03	0.00	0.00	0.00	543
Vendor	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	3.77	1.62	0.02	0.04	0.21	0.25	0.04	0.08	0.11	3,140
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.10	1.29	0.00	0.00	0.02	0.02	0.00	0.00	0.00	330
Vendor	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	2.28	0.97	0.01	0.02	0.12	0.15	0.02	0.05	0.07	1,882
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.24	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	54.7
Vendor	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	0.42	0.18	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	312

3.231. Embankment Mitigation (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	6.32	56.4	53.8	0.09	2.49	—	2.49	2.29	—	2.29	9,864
Dust From Material Movement	—	—	—	—	—	34.1	34.1	—	17.0	17.0	—
Onsite truck	0.00	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	6.32	56.4	53.8	0.09	2.49	—	2.49	2.29	—	2.29	9,864
Dust From Material Movement	—	—	—	—	—	34.1	34.1	—	17.0	17.0	—
Onsite truck	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	2.29	20.4	19.5	0.03	0.90	—	0.90	0.83	—	0.83	3,571
Dust From Material Movement	—	—	—	—	—	12.3	12.3	—	6.15	6.15	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.73	3.55	0.01	0.16	—	0.16	0.15	—	0.15	591
Dust From Material Movement	—	—	—	—	—	2.25	2.25	—	1.12	1.12	—
Onsite truck	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	0.14	0.13	2.24	0.00	0.00	0.03	0.03	0.00	0.00	0.00	562
Vendor	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	3.51	1.55	0.02	0.04	0.21	0.25	0.04	0.08	0.11	3,087
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.15	1.93	0.00	0.00	0.03	0.03	0.00	0.00	0.00	533
Vendor	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	3.63	1.56	0.02	0.04	0.21	0.25	0.04	0.08	0.11	3,082

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.73	0.00	0.00	0.01	0.01	0.00	0.00	0.00	196
Vendor	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	1.33	0.56	0.01	0.01	0.08	0.09	0.01	0.03	0.04	1,117
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	32.4
Vendor	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	0.24	0.10	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	185

3.232. Embankment Mitigation (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	9.36	53.2	0.09	0.30	—	0.30	0.29	—	0.29	9,864
Dust From Material Movement	—	—	—	—	—	34.1	34.1	—	17.0	17.0	—
Onsite truck	0.00	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	1.33	9.36	53.2	0.09	0.30	—	0.30	0.29	—	0.29	9,864
Dust From Material Movement	—	—	—	—	—	34.1	34.1	—	17.0	17.0	—
Onsite truck	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	0.48	3.39	19.2	0.03	0.11	—	0.11	0.11	—	0.11	3,571
Dust From Material Movement	—	—	—	—	—	12.3	12.3	—	6.15	6.15	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.62	3.51	0.01	0.02	—	0.02	0.02	—	0.02	591
Dust From Material Movement	—	—	—	—	—	2.25	2.25	—	1.12	1.12	—
Onsite truck	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	0.14	0.13	2.24	0.00	0.00	0.03	0.03	0.00	0.00	0.00	562
Vendor	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	3.51	1.55	0.02	0.04	0.21	0.25	0.04	0.08	0.11	3,087
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.14	0.15	1.93	0.00	0.00	0.03	0.03	0.00	0.00	0.00	533
Vendor	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	3.63	1.56	0.02	0.04	0.21	0.25	0.04	0.08	0.11	3,082
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.73	0.00	0.00	0.01	0.01	0.00	0.00	0.00	196
Vendor	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	1.33	0.56	0.01	0.01	0.08	0.09	0.01	0.03	0.04	1,117
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	< 0.005	< 0.005	0.00	0.00	0.00	32.4
Vendor	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	0.24	0.10	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01	185

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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
Part 1 Site Demolition (Excludes Spillway)	Demolition	10/1/2024	10/30/2024	5.00	22.0	—
Part 2 Site Demolition (Excludes Spillway)	Demolition	9/1/2025	9/30/2025	5.00	22.0	—
Spillway Demolition: Existing Spillway Demo	Demolition	4/1/2025	4/30/2025	5.00	22.0	—
Spillway Demolition: Crush Concrete Demo	Demolition	4/1/2025	4/30/2025	5.00	22.0	—
Spillway Demolition: Bridge Pier and Facing Demo	Demolition	4/1/2025	4/30/2025	5.00	22.0	—
Temporary Flood Control Berm	Site Preparation	10/1/2024	10/30/2024	5.00	22.0	—
Mobilization	Site Preparation	9/1/2024	10/1/2024	5.00	22.0	—
Demobilization	Site Preparation	12/1/2026	12/30/2026	5.00	22.0	—
Cleanup	Site Preparation	2/1/2027	3/2/2027	5.00	22.0	—
Allowance for Piping Install	Site Preparation	10/1/2024	10/30/2024	5.00	22.0	—
Bypass Pumping Diversion Beam	Site Preparation	9/1/2024	12/18/2024	5.00	78.0	—
Inclined Inlet Structure: Steel Pipe and Appurtenances	Building Construction	09/1/2025	12/2/2025	5.00	67.0	—
Inclined Inlet Structure: Reinforced Concrete	Building Construction	08/1/2025	10/1/2025	5.00	44.0	—
Inclined Inlet Structure: Drilled Foundation Anchors	Building Construction	8/1/2025	9/1/2025	5.00	22.0	—
Inclined Inlet Structure: Excavation	Building Construction	8/1/2025	9/1/2025	5.00	22.0	—
Inclined Inlet Structure: Stainless Steel Platform	Building Construction	10/1/2025	10/30/2025	5.00	22.0	—

Inclined Inlet Structure: Pneumatic Actuation Control System	Building Construction	10/1/2025	10/30/2025	5.00	22.0	—
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Building Construction	4/1/2025	7/1/2025	5.00	66.0	—
Cofferdam Installation and Removal: Dewatering	Building Construction	5/1/2025	7/1/2025	5.00	44.0	—
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Building Construction	7/1/2026	7/30/2026	5.00	22.0	—
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Building Construction	10/1/2024	10/30/2024	5.00	22.0	—
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Building Construction	11/1/2024	12/2/2024	5.00	22.0	—
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Building Construction	12/1/2024	12/31/2024	5.00	22.0	—
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Building Construction	12/1/2024	12/31/2024	5.00	22.0	—
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Building Construction	12/1/2024	12/31/2024	5.00	22.0	—
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Building Construction	12/1/2024	12/31/2024	5.00	22.0	—
Dam Control Building: Pt 1 CMU Control Building	Building Construction	7/1/2026	10/1/2026	5.00	67.0	—

Dam Control Building: Pt 2 CMU Control Building	Building Construction	12/1/2026	2/2/2027	5.00	46.0	—
Dam Control Building: Reinforced Concrete Foundation	Building Construction	7/1/2026	7/30/2026	5.00	22.0	—
Dam Control Building: Metal Frame Roofing	Building Construction	12/1/2026	12/30/2026	5.00	22.0	—
Dam Control Building: Ancillary Features	Building Construction	1/1/2027	2/1/2027	5.00	22.0	—
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Building Construction	4/1/2025	4/30/2025	5.00	22.0	—
Downstream Outlet Works Piping and Vault: Structure Bkfl	Building Construction	7/1/2025	7/30/2025	5.00	22.0	—
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Building Construction	4/1/2025	7/31/2025	5.00	88.0	—
Downstream Outlet Works Piping and Vault: Piping and Valves	Building Construction	4/1/2025	7/1/2025	5.00	66.0	—
Downstream Outlet Works Piping and Vault: Steel Casing	Building Construction	4/1/2025	4/30/2025	5.00	22.0	—
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Building Construction	7/1/2025	7/30/2025	5.00	22.0	—
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Building Construction	8/1/2025	9/1/2025	5.00	22.0	—
Downstream Outlet Works Piping and Vault: Dewatering	Building Construction	4/1/2025	4/30/2025	5.00	22.0	—

Downstream Outlet Works Piping and Vault: ARVs and Valves	Building Construction	6/1/2025	7/1/2025	5.00	22.0	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Building Construction	10/1/2026	10/30/2026	5.00	22.0	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Building Construction	11/1/2026	12/1/2026	5.00	22.0	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Building Construction	12/2/2026	12/30/2026	5.00	22.0	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Building Construction	11/1/2026	12/1/2026	5.00	22.0	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Building Construction	11/1/2026	12/1/2026	5.00	22.0	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Building Construction	11/1/2026	12/1/2026	5.00	22.0	—
Spillway Site Excavations	Building Construction	10/1/2024	3/4/2025	5.00	111	—
Rock Slope Stabilization	Building Construction	12/1/2024	5/1/2025	5.00	109	—
RCC Weir Support Block	Building Construction	5/1/2026	7/1/2026	5.00	44.0	—
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Building Construction	7/1/2026	7/30/2026	5.00	22.0	—
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Building Construction	8/1/2026	11/2/2026	5.00	66.0	—

Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Building Construction	11/1/2026	12/1/2026	5.00	22.0	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Building Construction	5/1/2026	11/2/2026	5.00	132	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Building Construction	5/1/2026	11/2/2026	5.00	132	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Building Construction	5/1/2026	11/2/2026	5.00	132	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Building Construction	5/1/2026	11/2/2026	5.00	132	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Building Construction	5/1/2026	11/2/2026	5.00	132	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Building Construction	5/1/2026	11/2/2026	5.00	132	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Building Construction	5/1/2026	11/2/2026	5.00	132	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Building Construction	5/1/2026	11/2/2026	5.00	132	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Building Construction	5/1/2026	11/2/2026	5.00	132	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Building Construction	5/1/2026	11/2/2026	5.00	132	—

Wall Transitions: Left Secant Pile Walls	Building Construction	7/1/2025	7/30/2025	5.00	22.0	—
Wall Transitions: Right Secant Pile Wall	Building Construction	7/1/2025	7/30/2025	5.00	22.0	—
Right Closure Wall: Work Platform Construction	Building Construction	7/1/2025	7/30/2025	5.00	22.0	—
Right Closure Wall: Secant Pile Wall	Building Construction	7/1/2025	10/1/2025	5.00	67.0	—
Right Closure Wall: Backfill Concrete	Building Construction	9/1/2025	9/30/2025	5.00	22.0	—
Wall Type 2 - Left: Leveling Concrete	Building Construction	7/1/2025	7/30/2025	5.00	22.0	—
Wall Type 2 - Left: 1 Inch Concrete Wall	Building Construction	7/1/2025	7/30/2025	5.00	22.0	—
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Building Construction	7/1/2025	7/30/2025	5.00	22.0	—
Wall Type 2 - Left: Concrete Footing	Building Construction	7/1/2025	7/30/2025	5.00	22.0	—
Wall Type 2 - Left: Backfill	Building Construction	8/1/2025	10/1/2025	5.00	44.0	—
Wall Type 2 - Left: Reinforced Concrete Wall	Building Construction	6/1/2025	9/2/2025	5.00	67.0	—
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Building Construction	8/1/2025	10/1/2025	5.00	44.0	—
Wall Type 2 - Wall Right: Leveling Concrete	Building Construction	9/1/2025	9/30/2025	5.00	22.0	—
Wall Type 2 - Wall Right: 1 Inch Wall	Building Construction	9/1/2025	9/30/2025	5.00	22.0	—
Wall Type 2 - Wall Right: 2.5 Inch Wall	Building Construction	9/1/2025	9/30/2025	5.00	22.0	—
Wall Type 2 - Wall Right: Concrete Footing	Building Construction	10/1/2025	10/30/2025	5.00	22.0	—
Wall Type 2 - Wall Right: Backfill	Building Construction	11/1/2025	12/2/2025	5.00	22.0	—
Wall Type 3 - Left: Roller Compacted Concrete	Building Construction	8/1/2025	10/1/2025	5.00	44.0	—

Wall Type 3 - Left: CVC Facing	Building Construction	10/1/2025	10/30/2025	5.00	22.0	—
Wall Type 3 - Right: Roller Compacted Concrete	Building Construction	9/1/2025	10/31/2025	5.00	45.0	—
Wall Type 3 - Right: CVC Facing	Building Construction	11/1/2025	12/2/2025	5.00	22.0	—
Wall Type 3 - Right: Backfill	Building Construction	10/1/2025	10/30/2025	5.00	22.0	—
Stilling Basin: RCC	Building Construction	11/1/2025	12/2/2025	5.00	22.0	—
Stilling Basin: Upstream/Downstream CVC Facing	Building Construction	11/1/2025	12/2/2025	5.00	22.0	—
Stilling Basin: Basin Steps	Building Construction	11/1/2025	12/2/2025	5.00	22.0	—
Stilling Basin: Chute Blocks	Building Construction	12/1/2025	12/30/2025	5.00	22.0	—
Stilling Basin: Dentated Sill	Building Construction	11/1/2025	12/2/2025	5.00	22.0	—
Spillway Slab Construction: RCC Foundation Support Block	Building Construction	11/1/2025	12/2/2025	5.00	22.0	—
Spillway Slab Construction: Spillway Chute Slab	Building Construction	12/1/2025	12/30/2025	5.00	22.0	—
Spillway Slab Construction: Stilling Basin Slab	Building Construction	12/1/2025	12/30/2025	5.00	22.0	—
Spillway Slab Construction: Zone B	Building Construction	11/1/2025	12/2/2025	5.00	22.0	—
Spillway Slab Construction: Zone C	Building Construction	12/1/2025	12/30/2025	5.00	22.0	—
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Building Construction	11/1/2025	12/2/2025	5.00	22.0	—
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Building Construction	12/1/2025	12/30/2025	5.00	22.0	—

Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Building Construction	12/1/2025	12/30/2025	5.00	22.0	—
Spillway Drains and Cleanouts: Drain Gravel	Building Construction	11/1/2025	12/2/2025	5.00	22.0	—
Spillway Drains and Cleanouts: Filter Sand	Building Construction	12/1/2025	12/30/2025	5.00	22.0	—
Surface Ditch from Landfill: Excavation	Building Construction	8/1/2026	9/1/2026	5.00	22.0	—
Surface Ditch from Landfill: Drop Structures	Building Construction	8/1/2026	9/1/2026	5.00	22.0	—
Surface Ditch from Landfill: Ditch Lining	Building Construction	8/1/2026	10/1/2026	5.00	44.0	—
Downstream Apron: Concrete Apron	Building Construction	4/1/2025	4/30/2025	5.00	22.0	—
Downstream Apron: Zone C	Building Construction	4/1/2025	4/30/2025	5.00	22.0	—
Downstream Apron: Riprap Apron	Building Construction	5/1/2025	5/30/2025	5.00	22.0	—
Downstream Apron: Riprap Bedding	Building Construction	5/1/2025	5/30/2025	5.00	22.0	—
Furnish and Install Electrical / Controls and Instrumentation	Building Construction	4/1/2026	11/2/2026	5.00	154	—
Furnish and Install Aeration System	Building Construction	10/1/2026	10/30/2026	5.00	22.0	—
Part 1 Furnish and Install Erosion Control Measures	Building Construction	9/1/2024	10/31/2024	5.00	44.0	—
Part 2 Furnish and Install Erosion Control Measures	Building Construction	4/1/2025	10/31/2025	5.00	154	—
Part 3 Furnish and Install Erosion Control Measures	Building Construction	4/1/2026	11/2/2026	5.00	154	—
Embankment Mitigation	Trenching	3/1/2025	7/4/2026	5.00	350	—

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
Part 1 Site Demolition (Excludes Spillway)	Excavators	Diesel	Average	1.00	10.0	425	0.38
Part 1 Site Demolition (Excludes Spillway)	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Part 2 Site Demolition (Excludes Spillway)	Excavators	Diesel	Average	1.00	10.0	425	0.38
Part 2 Site Demolition (Excludes Spillway)	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Spillway Demolition: Existing Spillway Demo	Concrete/Industrial Saws	Diesel	Average	4.00	10.0	33.0	0.73
Spillway Demolition: Existing Spillway Demo	Cranes	Diesel	Average	1.00	10.0	367	0.29
Spillway Demolition: Existing Spillway Demo	Crushing/Proc. Equipment	Gasoline	Average	2.00	10.0	12.0	0.85
Spillway Demolition: Existing Spillway Demo	Excavators	Diesel	Average	2.00	10.0	36.0	0.38
Spillway Demolition: Existing Spillway Demo	Off-Highway Trucks	Diesel	Average	1.00	10.0	376	0.38
Spillway Demolition: Existing Spillway Demo	Welders	Diesel	Average	1.00	10.0	46.0	0.45
Spillway Demolition: Existing Spillway Demo	Air Compressors	Diesel	Average	3.00	10.0	37.0	0.48
Spillway Demolition: Crush Concrete Demo	Crushing/Proc. Equipment	Gasoline	Average	1.00	10.0	12.0	0.85

Spillway Demolition: Crush Concrete Demo	Excavators	Diesel	Average	1.00	10.0	425	0.38
Spillway Demolition: Crush Concrete Demo	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Spillway Demolition: Crush Concrete Demo	Off-Highway Trucks	Diesel	Average	2.00	10.0	464	0.38
Spillway Demolition: Bridge Pier and Facing Demo	Concrete/Industrial Saws	Diesel	Average	4.00	10.0	33.0	0.73
Spillway Demolition: Bridge Pier and Facing Demo	Cranes	Diesel	Average	1.00	10.0	367	0.29
Spillway Demolition: Bridge Pier and Facing Demo	Crushing/Proc. Equipment	Gasoline	Average	2.00	10.0	12.0	0.85
Spillway Demolition: Bridge Pier and Facing Demo	Excavators	Diesel	Average	2.00	10.0	36.0	0.38
Spillway Demolition: Bridge Pier and Facing Demo	Off-Highway Trucks	Diesel	Average	1.00	10.0	376	0.38
Spillway Demolition: Bridge Pier and Facing Demo	Welders	Diesel	Average	1.00	10.0	46.0	0.45
Spillway Demolition: Bridge Pier and Facing Demo	Air Compressors	Diesel	Average	3.00	10.0	37.0	0.48
Temporary Flood Control Berm	Excavators	Diesel	Average	1.00	10.0	425	0.38
Temporary Flood Control Berm	Off-Highway Trucks	Diesel	Average	4.00	10.0	464	0.38
Temporary Flood Control Berm	Rubber Tired Dozers	Diesel	Average	1.00	10.0	474	0.40
Temporary Flood Control Berm	Rollers	Diesel	Average	1.00	10.0	117	0.38
Mobilization	Forklifts	Diesel	Average	1.00	10.0	142	0.20

Mobilization	Tractors/Loaders/Back	Diesel	Average	1.00	10.0	286	0.37
Mobilization	Off-Highway Trucks	Diesel	Average	2.00	10.0	464	0.38
Mobilization	Graders	Diesel	Average	1.00	10.0	180	0.41
Mobilization	Excavators	Diesel	Average	1.00	10.0	425	0.38
Mobilization	Skid Steer Loaders	Diesel	Average	2.00	10.0	107	0.37
Mobilization	Cranes	Diesel	Average	1.00	10.0	367	0.29
Demobilization	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Demobilization	Tractors/Loaders/Back hoes	Diesel	Average	1.00	10.0	286	0.37
Demobilization	Off-Highway Trucks	Diesel	Average	2.00	10.0	464	0.38
Demobilization	Graders	Diesel	Average	1.00	10.0	180	0.41
Demobilization	Excavators	Diesel	Average	1.00	10.0	425	0.38
Demobilization	Skid Steer Loaders	Diesel	Average	2.00	10.0	107	0.37
Demobilization	Cranes	Diesel	Average	1.00	10.0	367	0.29
Cleanup	Scrapers	Diesel	Average	2.00	10.0	515	0.48
Cleanup	Rubber Tired Dozers	Diesel	Average	3.00	10.0	354	0.40
Cleanup	Graders	Diesel	Average	1.00	10.0	290	0.41
Cleanup	Tractors/Loaders/Back hoes	Diesel	Average	1.00	10.0	313	0.37
Allowance for Piping Install	Excavators	Diesel	Average	1.00	10.0	300	0.38
Allowance for Piping Install	Tractors/Loaders/Back hoes	Diesel	Average	1.00	10.0	241	0.37
Allowance for Piping Install	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Bypass Pumping Diversion Beam	Generator Sets	Diesel	Average	1.00	24.0	14.0	0.74
Inclined Inlet Structure: Steel Pipe and Appurtenances	Rollers	Diesel	Average	1.00	10.0	36.0	0.38

Inclined Inlet Structure: Steel Pipe and Appurtenances	Excavators	Diesel	Average	2.00	20.0	36.0	0.38
Inclined Inlet Structure: Steel Pipe and Appurtenances	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	84.0	0.37
Inclined Inlet Structure: Steel Pipe and Appurtenances	Welders	Diesel	Average	1.00	10.0	46.0	0.45
Inclined Inlet Structure: Steel Pipe and Appurtenances	Cranes	Diesel	Average	1.00	10.0	367	0.29
Inclined Inlet Structure: Reinforced Concrete	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Inclined Inlet Structure: Reinforced Concrete	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Inclined Inlet Structure: Reinforced Concrete	Cranes	Diesel	Average	2.00	10.0	367	0.29
Inclined Inlet Structure: Reinforced Concrete	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Inclined Inlet Structure: Reinforced Concrete	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Inclined Inlet Structure: Reinforced Concrete	Cement and Mortar Mixers	Diesel	Average	3.00	10.0	10.0	0.56
Inclined Inlet Structure: Drilled Foundation Anchors	Bore/Drill Rigs	Diesel	Average	2.00	10.0	385	0.50
Inclined Inlet Structure: Drilled Foundation Anchors	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37

Inclined Inlet Structure: Drilled Foundation Anchors	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Inclined Inlet Structure: Excavation	Excavators	Diesel	Average	1.00	10.0	425	0.38
Inclined Inlet Structure: Excavation	Off-Highway Trucks	Diesel	Average	2.00	10.0	464	0.38
Inclined Inlet Structure: Stainless Steel Platform	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Inclined Inlet Structure: Stainless Steel Platform	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Inclined Inlet Structure: Stainless Steel Platform	Cranes	Diesel	Average	1.00	10.0	367	0.29
Inclined Inlet Structure: Pneumatic Actuation Control System	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Inclined Inlet Structure: Pneumatic Actuation Control System	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Inclined Inlet Structure: Pneumatic Actuation Control System	Cranes	Diesel	Average	1.00	10.0	367	0.29
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Cranes	Diesel	Average	2.00	10.0	367	0.29
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Rough Terrain Forklifts	Diesel	Average	1.00	10.0	96.0	0.40

Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Aerial Lifts	Diesel	Average	2.00	10.0	46.0	0.31
Cofferdam Installation and Removal: Dewatering	Generator Sets	Diesel	Average	2.00	24.0	14.0	0.74
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Cranes	Diesel	Average	2.00	10.0	367	0.29
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Rough Terrain Forklifts	Diesel	Average	1.00	10.0	96.0	0.40
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Aerial Lifts	Diesel	Average	2.00	10.0	46.0	0.31
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Graders	Diesel	Average	1.00	10.0	290	0.41
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Scrapers	Diesel	Average	3.00	10.0	515	0.48
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Rubber Tired Dozers	Diesel	Average	1.00	10.0	265	0.40
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Off-Highway Trucks	Diesel	Average	1.00	10.0	464	0.38

Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Rubber Tired Dozers	Diesel	Average	1.00	10.0	474	0.40
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Rollers	Diesel	Average	1.00	10.0	405	0.38
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Graders	Diesel	Average	1.00	10.0	238	0.41
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	241	0.37
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Rollers	Diesel	Average	1.00	10.0	112	0.38
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Excavators	Diesel	Average	1.00	10.0	300	0.38
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Off-Highway Trucks	Diesel	Average	2.00	10.0	464	0.38
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Rubber Tired Dozers	Diesel	Average	1.00	5.00	170	0.40
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Forklifts	Diesel	Average	1.00	10.0	142	0.20

Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	241	0.37
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Skid Steer Loaders	Diesel	Average	1.00	10.0	106	0.37
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Bore/Drill Rigs	Diesel	Average	1.00	10.0	173	0.50
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37

Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Dam Control Building: Pt 1 CMU Control Building	Forklifts	Diesel	Average	1.00	5.00	142	0.20
Dam Control Building: Pt 1 CMU Control Building	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Dam Control Building: Pt 1 CMU Control Building	Excavators	Diesel	Average	1.00	5.00	74.0	0.38
Dam Control Building: Pt 2 CMU Control Building	Forklifts	Diesel	Average	1.00	5.00	142	0.20
Dam Control Building: Pt 2 CMU Control Building	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Dam Control Building: Pt 2 CMU Control Building	Excavators	Diesel	Average	1.00	5.00	74.0	0.38
Dam Control Building: Reinforced Concrete Foundation	Forklifts	Diesel	Average	1.00	5.00	142	0.20
Dam Control Building: Reinforced Concrete Foundation	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Dam Control Building: Reinforced Concrete Foundation	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Dam Control Building: Reinforced Concrete Foundation	Pumps	Diesel	Average	1.00	10.0	11.0	0.74

Dam Control Building: Reinforced Concrete Foundation	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Dam Control Building: Reinforced Concrete Foundation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Dam Control Building: Reinforced Concrete Foundation	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Dam Control Building: Reinforced Concrete Foundation	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Dam Control Building: Metal Frame Roofing	Forklifts	Diesel	Average	1.00	5.00	142	0.20
Dam Control Building: Metal Frame Roofing	Cranes	Diesel	Average	1.00	10.0	367	0.29
Dam Control Building: Ancillary Features	Forklifts	Diesel	Average	1.00	5.00	142	0.20
Dam Control Building: Ancillary Features	Cranes	Diesel	Average	1.00	5.00	367	0.29
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Excavators	Diesel	Average	1.00	10.0	300	0.38
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Off-Highway Trucks	Diesel	Average	2.00	10.0	464	0.38
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Rubber Tired Dozers	Diesel	Average	1.00	10.0	170	0.40
Downstream Outlet Works Piping and Vault: Structure Bkfl	Excavators	Diesel	Average	1.00	10.0	300	0.38

Downstream Outlet Works Piping and Vault: Structure Bkfl	Tractors/Loaders/Back	Diesel	Average	1.00	10.0	241	0.37
Downstream Outlet Works Piping and Vault: Structure Bkfl	Off-Highway Trucks	Diesel	Average	2.00	10.0	464	0.38
Downstream Outlet Works Piping and Vault: Structure Bkfl	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Cranes	Diesel	Average	1.00	5.00	367	0.29
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Forklifts	Diesel	Average	1.00	5.00	142	0.20
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Bore/Drill Rigs	Diesel	Average	1.00	10.0	173	0.50
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37

Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Cement and Mortar Mixers	Diesel	Average	3.00	10.0	10.0	0.56
Downstream Outlet Works Piping and Vault: Piping and Valves	Rollers	Diesel	Average	1.00	10.0	36.0	0.38
Downstream Outlet Works Piping and Vault: Piping and Valves	Excavators	Diesel	Average	3.00	10.0	36.0	0.38
Downstream Outlet Works Piping and Vault: Piping and Valves	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	84.0	0.37
Downstream Outlet Works Piping and Vault: Piping and Valves	Welders	Diesel	Average	1.00	10.0	46.0	0.45
Downstream Outlet Works Piping and Vault: Steel Casing	Rollers	Diesel	Average	1.00	10.0	36.0	0.38
Downstream Outlet Works Piping and Vault: Steel Casing	Excavators	Diesel	Average	3.00	10.0	36.0	0.38
Downstream Outlet Works Piping and Vault: Steel Casing	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	84.0	0.37
Downstream Outlet Works Piping and Vault: Steel Casing	Welders	Diesel	Average	1.00	10.0	46.0	0.45

Downstream Outlet Works Piping and Vault: Ladders and Platforms	Forklifts	Diesel	Average	1.00	5.00	142	0.20
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Cranes	Diesel	Average	1.00	5.00	367	0.29
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Excavators	Diesel	Average	1.00	8.00	300	0.38
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	241	0.37
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Plate Compactors	Diesel	Average	1.00	5.00	8.00	0.43
Downstream Outlet Works Piping and Vault: Dewatering	Generator Sets	Diesel	Average	1.00	24.0	14.0	0.74
Downstream Outlet Works Piping and Vault: ARVs and Valves	Excavators	Diesel	Average	1.00	5.00	300	0.38
Downstream Outlet Works Piping and Vault: ARVs and Valves	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	241	0.37

Downstream Outlet Works Piping and Vault: ARVs and Valves	Plate Compactors	Diesel	Average	1.00	5.00	8.00	0.43
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Excavators	Diesel	Average	1.00	10.0	300	0.38
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Off-Highway Trucks	Diesel	Average	2.00	10.0	464	0.38
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Cranes	Diesel	Average	1.00	5.00	367	0.29
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Forklifts	Diesel	Average	1.00	5.00	142	0.20
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Skid Steer Loaders	Diesel	Average	1.00	8.00	107	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Pumps	Diesel	Average	1.00	5.00	11.0	0.74

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Cranes	Diesel	Average	2.00	10.0	367	0.29
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Cranes	Diesel	Average	1.00	10.0	367	0.29

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Graders	Diesel	Average	1.00	10.0	290	0.41
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Scrapers	Diesel	Average	3.00	10.0	515	0.48
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Rubber Tired Dozers	Diesel	Average	1.00	10.0	265	0.40
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Bore/Drill Rigs	Diesel	Average	2.00	10.0	385	0.50
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Bore/Drill Rigs	Diesel	Average	2.00	10.0	385	0.50
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Forklifts	Diesel	Average	1.00	10.0	142	0.20

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Excavators	Diesel	Average	1.00	10.0	201	0.38
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Air Compressors	Diesel	Average	1.00	10.0	37.0	0.48
Spillway Site Excavations	Excavators	Diesel	Average	1.00	10.0	485	0.38
Spillway Site Excavations	Excavators	Diesel	Average	1.00	10.0	425	0.38
Spillway Site Excavations	Off-Highway Trucks	Diesel	Average	4.00	10.0	464	0.38
Spillway Site Excavations	Rubber Tired Dozers	Diesel	Average	1.00	10.0	474	0.40
Rock Slope Stabilization	Bore/Drill Rigs	Diesel	Average	2.00	10.0	385	0.50
Rock Slope Stabilization	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Rock Slope Stabilization	Forklifts	Diesel	Average	1.00	10.0	142	0.20

Rock Slope Stabilization	Excavators	Diesel	Average	1.00	10.0	201	0.38
Rock Slope Stabilization	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Rock Slope Stabilization	Bore/Drill Rigs	Diesel	Average	1.00	10.0	173	0.50
Rock Slope Stabilization	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Rock Slope Stabilization	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Rock Slope Stabilization	Air Compressors	Diesel	Average	1.00	10.0	37.0	0.48
RCC Weir Support Block	Bore/Drill Rigs	Diesel	Average	1.00	10.0	173	0.50
RCC Weir Support Block	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
RCC Weir Support Block	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
RCC Weir Support Block	Cranes	Diesel	Average	1.00	10.0	367	0.29
RCC Weir Support Block	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74
RCC Weir Support Block	Tractors/Loaders/Backhoes	Diesel	Average	3.00	10.0	84.0	0.37
RCC Weir Support Block	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
RCC Weir Support Block	Rollers	Diesel	Average	3.00	10.0	36.0	0.38
RCC Weir Support Block	Rubber Tired Dozers	Diesel	Average	3.00	10.0	367	0.40
RCC Weir Support Block	Off-Highway Trucks	Diesel	Average	5.00	10.0	376	0.38

Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Bore/Drill Rigs	Diesel	Average	1.00	10.0	173	0.50
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Tractors/Loaders/Back hoes	Diesel	Average	3.00	10.0	84.0	0.37
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Rollers	Diesel	Average	3.00	10.0	36.0	0.38
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Rubber Tired Dozers	Diesel	Average	3.00	10.0	367	0.40
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Cranes	Diesel	Average	1.00	10.0	367	0.29
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Off-Highway Trucks	Diesel	Average	5.00	10.0	376	0.38

Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Cranes	Diesel	Average	2.00	10.0	367	0.29
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Cement and Mortar Mixers	Diesel	Average	2.00	5.00	10.0	0.56
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Tractors/Loaders/Back hoes	Diesel	Average	1.00	5.00	286	0.37
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Pumps	Diesel	Average	1.00	10.0	11.0	0.74

Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Cranes	Diesel	Average	2.00	10.0	367	0.29
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Bore/Drill Rigs	Diesel	Average	2.00	10.0	173	0.50
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Excavators	Diesel	Average	2.00	10.0	425	0.38

Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Off-Highway Trucks	Diesel	Average	3.00	10.0	464	0.38
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Rubber Tired Dozers	Diesel	Average	1.00	10.0	354	0.40
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Tractors/Loaders/Back hoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Air Compressors	Diesel	Average	1.00	10.0	37.0	0.48

Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Tractors/Loaders/Back hoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37

Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Bore/Drill Rigs	Diesel	Average	2.00	10.0	385	0.50
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Excavators	Diesel	Average	1.00	10.0	201	0.38
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Cement and Mortar Mixers	Diesel	Average	4.00	10.0	10.0	0.56

Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Excavators	Diesel	Average	2.00	10.0	425	0.38
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Off-Highway Trucks	Diesel	Average	3.00	10.0	464	0.38
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Rubber Tired Dozers	Diesel	Average	1.00	10.0	354	0.40
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Bore/Drill Rigs	Diesel	Average	1.00	10.0	173	0.50
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56

Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Air Compressors	Diesel	Average	1.00	10.0	37.0	0.48
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37

Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Bore/Drill Rigs	Diesel	Average	2.00	10.0	83.0	0.50
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Excavators	Diesel	Average	1.00	10.0	201	0.38
Wall Transitions: Left Secant Pile Walls	Excavators	Diesel	Average	1.00	10.0	425	0.38
Wall Transitions: Left Secant Pile Walls	Cranes	Diesel	Average	1.00	5.00	367	0.29
Wall Transitions: Left Secant Pile Walls	Excavators	Diesel	Average	1.00	10.0	425	0.38
Wall Transitions: Left Secant Pile Walls	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Wall Transitions: Left Secant Pile Walls	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Transitions: Left Secant Pile Walls	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50

Wall Transitions: Left Secant Pile Walls	Tractors/Loaders/Back	Diesel	Average	1.00	5.00	286	0.37
Wall Transitions: Left Secant Pile Walls	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Transitions: Left Secant Pile Walls	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Wall Transitions: Right Secant Pile Wall	Excavators	Diesel	Average	2.00	10.0	425	0.38
Wall Transitions: Right Secant Pile Wall	Cranes	Diesel	Average	1.00	5.00	367	0.29
Wall Transitions: Right Secant Pile Wall	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Wall Transitions: Right Secant Pile Wall	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Transitions: Right Secant Pile Wall	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Transitions: Right Secant Pile Wall	Tractors/Loaders/Back hoes	Diesel	Average	1.00	5.00	286	0.37
Wall Transitions: Right Secant Pile Wall	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Transitions: Right Secant Pile Wall	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Right Closure Wall: Work Platform Construction	Excavators	Diesel	Average	1.00	10.0	425	0.38
Right Closure Wall: Work Platform Construction	Off-Highway Trucks	Diesel	Average	2.00	10.0	464	0.38
Right Closure Wall: Work Platform Construction	Rubber Tired Dozers	Diesel	Average	1.00	10.0	354	0.40
Right Closure Wall: Work Platform Construction	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Right Closure Wall: Secant Pile Wall	Excavators	Diesel	Average	1.00	10.0	425	0.38

Right Closure Wall: Secant Pile Wall	Cranes	Diesel	Average	1.00	10.0	367	0.29
Right Closure Wall: Secant Pile Wall	Excavators	Diesel	Average	1.00	10.0	425	0.38
Right Closure Wall: Secant Pile Wall	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Right Closure Wall: Secant Pile Wall	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Right Closure Wall: Secant Pile Wall	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Right Closure Wall: Secant Pile Wall	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Right Closure Wall: Secant Pile Wall	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Right Closure Wall: Secant Pile Wall	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Right Closure Wall: Backfill Concrete	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Right Closure Wall: Backfill Concrete	Pumps	Diesel	Average	1.00	5.00	11.0	0.74
Right Closure Wall: Backfill Concrete	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Right Closure Wall: Backfill Concrete	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Right Closure Wall: Backfill Concrete	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Right Closure Wall: Backfill Concrete	Cement and Mortar Mixers	Diesel	Average	3.00	10.0	10.0	0.56
Wall Type 2 - Left: Leveling Concrete	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Type 2 - Left: Leveling Concrete	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Left: Leveling Concrete	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50

Wall Type 2 - Left: Leveling Concrete	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Wall Type 2 - Left: Leveling Concrete	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 2 - Left: 1 Inch Concrete Wall	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 2 - Left: 1 Inch Concrete Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Left: 1 Inch Concrete Wall	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 2 - Left: 1 Inch Concrete Wall	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 2 - Left: 1 Inch Concrete Wall	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Left: 1 Inch Concrete Wall	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 2 - Left: 1 Inch Concrete Wall	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 2 - Left: 1 Inch Concrete Wall	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 2 - Left: 1 Inch Concrete Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50

Wall Type 2 - Left: 2.5 Inch Concrete Wall	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Left: Concrete Footing	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 2 - Left: Concrete Footing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Left: Concrete Footing	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 2 - Left: Concrete Footing	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 2 - Left: Concrete Footing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Left: Concrete Footing	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 2 - Left: Concrete Footing	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 2 - Left: Concrete Footing	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 2 - Left: Concrete Footing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Left: Backfill	Graders	Diesel	Average	1.00	10.0	215	0.41
Wall Type 2 - Left: Backfill	Excavators	Diesel	Average	1.00	10.0	36.0	0.38
Wall Type 2 - Left: Backfill	Rollers	Diesel	Average	2.00	10.0	36.0	0.38
Wall Type 2 - Left: Backfill	Off-Highway Trucks	Diesel	Average	5.00	10.0	376	0.38
Wall Type 2 - Left: Backfill	Off-Highway Trucks	Diesel	Average	1.00	10.0	376	0.38

Wall Type 2 - Left: Reinforced Concrete Wall	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 2 - Left: Reinforced Concrete Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Left: Reinforced Concrete Wall	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 2 - Left: Reinforced Concrete Wall	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 2 - Left: Reinforced Concrete Wall	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Left: Reinforced Concrete Wall	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 2 - Left: Reinforced Concrete Wall	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 2 - Left: Reinforced Concrete Wall	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 2 - Left: Reinforced Concrete Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Bore/Drill Rigs	Diesel	Average	2.00	10.0	385	0.50
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Forklifts	Diesel	Average	1.00	10.0	142	0.20

Wall Type 2 - Left: Footing Rock Anchors and Backfill	Graders	Diesel	Average	1.00	10.0	215	0.41
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Excavators	Diesel	Average	1.00	10.0	36.0	0.38
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Rollers	Diesel	Average	2.00	10.0	36.0	0.38
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Off-Highway Trucks	Diesel	Average	6.00	10.0	376	0.38
Wall Type 2 - Wall Right: Leveling Concrete	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 2 - Wall Right: Leveling Concrete	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Wall Right: Leveling Concrete	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 2 - Wall Right: Leveling Concrete	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 2 - Wall Right: Leveling Concrete	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Wall Right: Leveling Concrete	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 2 - Wall Right: Leveling Concrete	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 2 - Wall Right: Leveling Concrete	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37

Wall Type 2 - Wall Right: Leveling Concrete	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Wall Right: 1 Inch Wall	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 2 - Wall Right: 1 Inch Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Wall Right: 1 Inch Wall	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 2 - Wall Right: 1 Inch Wall	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 2 - Wall Right: 1 Inch Wall	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Wall Right: 1 Inch Wall	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 2 - Wall Right: 1 Inch Wall	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 2 - Wall Right: 1 Inch Wall	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 2 - Wall Right: 1 Inch Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Wall Right: 2.5 Inch Wall	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 2 - Wall Right: 2.5 Inch Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Wall Right: 2.5 Inch Wall	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 2 - Wall Right: 2.5 Inch Wall	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 2 - Wall Right: 2.5 Inch Wall	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Wall Right: 2.5 Inch Wall	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 2 - Wall Right: 2.5 Inch Wall	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37

Wall Type 2 - Wall Right: 2.5 Inch Wall	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 2 - Wall Right: 2.5 Inch Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Wall Right: Concrete Footing	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 2 - Wall Right: Concrete Footing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Wall Right: Concrete Footing	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 2 - Wall Right: Concrete Footing	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 2 - Wall Right: Concrete Footing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Wall Right: Concrete Footing	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 2 - Wall Right: Concrete Footing	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 2 - Wall Right: Concrete Footing	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 2 - Wall Right: Concrete Footing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Wall Right: Backfill	Graders	Diesel	Average	1.00	10.0	215	0.41
Wall Type 2 - Wall Right: Backfill	Excavators	Diesel	Average	1.00	10.0	36.0	0.38
Wall Type 2 - Wall Right: Backfill	Rollers	Diesel	Average	2.00	10.0	36.0	0.38

Wall Type 2 - Wall Right: Backfill	Off-Highway Trucks	Diesel	Average	6.00	10.0	376	0.38
Wall Type 3 - Left: Roller Compacted Concrete	Bore/Drill Rigs	Diesel	Average	1.00	10.0	173	0.50
Wall Type 3 - Left: Roller Compacted Concrete	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Wall Type 3 - Left: Roller Compacted Concrete	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Wall Type 3 - Left: Roller Compacted Concrete	Cranes	Diesel	Average	1.00	10.0	367	0.29
Wall Type 3 - Left: Roller Compacted Concrete	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74
Wall Type 3 - Left: Roller Compacted Concrete	Tractors/Loaders/Backhoes	Diesel	Average	3.00	10.0	84.0	0.37
Wall Type 3 - Left: Roller Compacted Concrete	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Wall Type 3 - Left: Roller Compacted Concrete	Rollers	Diesel	Average	3.00	10.0	36.0	0.38
Wall Type 3 - Left: Roller Compacted Concrete	Rubber Tired Dozers	Diesel	Average	3.00	10.0	367	0.40
Wall Type 3 - Left: Roller Compacted Concrete	Off-Highway Trucks	Diesel	Average	5.00	10.0	376	0.38
Wall Type 3 - Left: CVC Facing	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 3 - Left: CVC Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74

Wall Type 3 - Left: CVC Facing	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 3 - Left: CVC Facing	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 3 - Left: CVC Facing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 3 - Left: CVC Facing	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 3 - Left: CVC Facing	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 3 - Left: CVC Facing	Skid Steer Loaders	Diesel	Average	5.00	5.00	71.0	0.37
Wall Type 3 - Left: CVC Facing	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Wall Type 3 - Right: Roller Compacted Concrete	Bore/Drill Rigs	Diesel	Average	1.00	10.0	173	0.50
Wall Type 3 - Right: Roller Compacted Concrete	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Wall Type 3 - Right: Roller Compacted Concrete	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Wall Type 3 - Right: Roller Compacted Concrete	Cranes	Diesel	Average	1.00	10.0	367	0.29
Wall Type 3 - Right: Roller Compacted Concrete	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74
Wall Type 3 - Right: Roller Compacted Concrete	Tractors/Loaders/Backhoes	Diesel	Average	3.00	10.0	84.0	0.37
Wall Type 3 - Right: Roller Compacted Concrete	Pumps	Diesel	Average	3.00	10.0	11.0	0.74

Wall Type 3 - Right: Roller Compacted Concrete	Rollers	Diesel	Average	3.00	10.0	36.0	0.38
Wall Type 3 - Right: Roller Compacted Concrete	Rubber Tired Dozers	Diesel	Average	3.00	10.0	367	0.40
Wall Type 3 - Right: Roller Compacted Concrete	Off-Highway Trucks	Diesel	Average	5.00	10.0	376	0.38
Wall Type 3 - Right: CVC Facing	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Wall Type 3 - Right: CVC Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 3 - Right: CVC Facing	Cranes	Diesel	Average	2.00	10.0	367	0.29
Wall Type 3 - Right: CVC Facing	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Wall Type 3 - Right: CVC Facing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 3 - Right: CVC Facing	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Wall Type 3 - Right: CVC Facing	Tractors/Loaders/Back hoes	Diesel	Average	1.00	5.00	286	0.37
Wall Type 3 - Right: CVC Facing	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Wall Type 3 - Right: CVC Facing	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Wall Type 3 - Right: Backfill	Graders	Diesel	Average	1.00	10.0	215	0.41
Wall Type 3 - Right: Backfill	Excavators	Diesel	Average	1.00	10.0	36.0	0.38
Wall Type 3 - Right: Backfill	Rollers	Diesel	Average	2.00	10.0	36.0	0.38
Wall Type 3 - Right: Backfill	Off-Highway Trucks	Diesel	Average	6.00	10.0	376	0.38

Stilling Basin: RCC	Bore/Drill Rigs	Diesel	Average	1.00	10.0	173	0.50
Stilling Basin: RCC	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Stilling Basin: RCC	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Stilling Basin: RCC	Cranes	Diesel	Average	1.00	10.0	367	0.29
Stilling Basin: RCC	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74
Stilling Basin: RCC	Tractors/Loaders/Backhoes	Diesel	Average	3.00	10.0	84.0	0.37
Stilling Basin: RCC	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Stilling Basin: RCC	Rollers	Diesel	Average	3.00	10.0	36.0	0.38
Stilling Basin: RCC	Rubber Tired Dozers	Diesel	Average	3.00	10.0	367	0.40
Stilling Basin: RCC	Off-Highway Trucks	Diesel	Average	5.00	10.0	376	0.38
Stilling Basin: Upstream/Downstream CVC Facing	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Stilling Basin: Upstream/Downstream CVC Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Stilling Basin: Upstream/Downstream CVC Facing	Cranes	Diesel	Average	2.00	10.0	367	0.29
Stilling Basin: Upstream/Downstream CVC Facing	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Stilling Basin: Upstream/Downstream CVC Facing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Stilling Basin: Upstream/Downstream CVC Facing	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Stilling Basin: Upstream/Downstream CVC Facing	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Stilling Basin: Upstream/Downstream CVC Facing	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37

Stilling Basin: Upstream/Downstream CVC Facing	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Stilling Basin: Basin Steps	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Stilling Basin: Basin Steps	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Stilling Basin: Basin Steps	Cranes	Diesel	Average	2.00	10.0	367	0.29
Stilling Basin: Basin Steps	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Stilling Basin: Basin Steps	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Stilling Basin: Basin Steps	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Stilling Basin: Basin Steps	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Stilling Basin: Basin Steps	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Stilling Basin: Basin Steps	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Stilling Basin: Chute Blocks	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Stilling Basin: Chute Blocks	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Stilling Basin: Chute Blocks	Cranes	Diesel	Average	2.00	8.00	367	0.29
Stilling Basin: Chute Blocks	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Stilling Basin: Chute Blocks	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Stilling Basin: Chute Blocks	Bore/Drill Rigs	Diesel	Average	1.00	2.00	173	0.50
Stilling Basin: Chute Blocks	Tractors/Loaders/Backhoes	Diesel	Average	1.00	2.00	286	0.37

Stilling Basin: Chute Blocks	Skid Steer Loaders	Diesel	Average	1.00	2.00	107	0.37
Stilling Basin: Chute Blocks	Cement and Mortar Mixers	Diesel	Average	2.00	2.00	10.0	0.56
Stilling Basin: Dentated Sill	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Stilling Basin: Dentated Sill	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Stilling Basin: Dentated Sill	Cranes	Diesel	Average	2.00	10.0	367	0.29
Stilling Basin: Dentated Sill	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Stilling Basin: Dentated Sill	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Stilling Basin: Dentated Sill	Bore/Drill Rigs	Diesel	Average	1.00	2.00	173	0.50
Stilling Basin: Dentated Sill	Tractors/Loaders/Backhoes	Diesel	Average	1.00	2.00	286	0.37
Stilling Basin: Dentated Sill	Skid Steer Loaders	Diesel	Average	1.00	2.00	107	0.37
Stilling Basin: Dentated Sill	Cement and Mortar Mixers	Diesel	Average	2.00	2.00	10.0	0.56
Spillway Slab Construction: RCC Foundation Support Block	Bore/Drill Rigs	Diesel	Average	1.00	10.0	173	0.50
Spillway Slab Construction: RCC Foundation Support Block	Pumps	Diesel	Average	6.00	10.0	11.0	0.74
Spillway Slab Construction: RCC Foundation Support Block	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43

Spillway Slab Construction: RCC Foundation Support Block	Cranes	Diesel	Average	1.00	10.0	367	0.29
Spillway Slab Construction: RCC Foundation Support Block	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74
Spillway Slab Construction: RCC Foundation Support Block	Tractors/Loaders/Backhoes	Diesel	Average	3.00	10.0	84.0	0.37
Spillway Slab Construction: RCC Foundation Support Block	Rollers	Diesel	Average	3.00	10.0	36.0	0.38
Spillway Slab Construction: RCC Foundation Support Block	Rubber Tired Dozers	Diesel	Average	3.00	10.0	367	0.40
Spillway Slab Construction: RCC Foundation Support Block	Off-Highway Trucks	Diesel	Average	5.00	10.0	376	0.38
Spillway Slab Construction: Spillway Chute Slab	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Spillway Slab Construction: Spillway Chute Slab	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Spillway Slab Construction: Spillway Chute Slab	Cranes	Diesel	Average	2.00	10.0	367	0.29
Spillway Slab Construction: Spillway Chute Slab	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Spillway Slab Construction: Spillway Chute Slab	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74

Spillway Slab Construction: Spillway Chute Slab	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Spillway Slab Construction: Spillway Chute Slab	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Spillway Slab Construction: Spillway Chute Slab	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37
Spillway Slab Construction: Spillway Chute Slab	Cement and Mortar Mixers	Diesel	Average	3.00	10.0	10.0	0.56
Spillway Slab Construction: Stilling Basin Slab	Surfacing Equipment	Diesel	Average	2.00	10.0	399	0.30
Spillway Slab Construction: Stilling Basin Slab	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Spillway Slab Construction: Stilling Basin Slab	Cranes	Diesel	Average	2.00	10.0	367	0.29
Spillway Slab Construction: Stilling Basin Slab	Rough Terrain Forklifts	Diesel	Average	2.00	10.0	96.0	0.40
Spillway Slab Construction: Stilling Basin Slab	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Spillway Slab Construction: Stilling Basin Slab	Bore/Drill Rigs	Diesel	Average	1.00	5.00	173	0.50
Spillway Slab Construction: Stilling Basin Slab	Tractors/Loaders/Backhoes	Diesel	Average	1.00	5.00	286	0.37
Spillway Slab Construction: Stilling Basin Slab	Skid Steer Loaders	Diesel	Average	1.00	5.00	107	0.37

Spillway Slab Construction: Stilling Basin Slab	Cement and Mortar Mixers	Diesel	Average	3.00	10.0	10.0	0.56
Spillway Slab Construction: Zone B	Bore/Drill Rigs	Diesel	Average	2.00	10.0	385	0.50
Spillway Slab Construction: Zone B	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Spillway Slab Construction: Zone B	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Spillway Slab Construction: Zone C	Bore/Drill Rigs	Diesel	Average	2.00	10.0	385	0.50
Spillway Slab Construction: Zone C	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Spillway Slab Construction: Zone C	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Excavators	Diesel	Average	1.00	10.0	74.0	0.38
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Excavators	Diesel	Average	1.00	10.0	74.0	0.38
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Excavators	Diesel	Average	1.00	10.0	74.0	0.38
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37

Spillway Drains and Cleanouts: Drain Gravel	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Spillway Drains and Cleanouts: Drain Gravel	Rubber Tired Dozers	Diesel	Average	1.00	10.0	170	0.40
Spillway Drains and Cleanouts: Drain Gravel	Off-Highway Trucks	Diesel	Average	1.00	10.0	376	0.38
Spillway Drains and Cleanouts: Filter Sand	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Spillway Drains and Cleanouts: Filter Sand	Rubber Tired Dozers	Diesel	Average	1.00	10.0	170	0.40
Spillway Drains and Cleanouts: Filter Sand	Off-Highway Trucks	Diesel	Average	1.00	10.0	376	0.38
Surface Ditch from Landfill: Excavation	Excavators	Diesel	Average	1.00	10.0	74.0	0.38
Surface Ditch from Landfill: Excavation	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Surface Ditch from Landfill: Drop Structures	Excavators	Diesel	Average	1.00	10.0	74.0	0.38
Surface Ditch from Landfill: Drop Structures	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Surface Ditch from Landfill: Ditch Lining	Excavators	Diesel	Average	1.00	10.0	300	0.38
Surface Ditch from Landfill: Ditch Lining	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Surface Ditch from Landfill: Ditch Lining	Cranes	Diesel	Average	1.00	10.0	367	0.29
Surface Ditch from Landfill: Ditch Lining	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	241	0.37
Surface Ditch from Landfill: Ditch Lining	Forklifts	Diesel	Average	1.00	10.0	142	0.20

Downstream Apron: Concrete Apron	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Downstream Apron: Concrete Apron	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Downstream Apron: Concrete Apron	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Downstream Apron: Concrete Apron	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Downstream Apron: Concrete Apron	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Downstream Apron: Concrete Apron	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Downstream Apron: Concrete Apron	Cranes	Diesel	Average	1.00	10.0	367	0.29
Downstream Apron: Concrete Apron	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Downstream Apron: Concrete Apron	Bore/Drill Rigs	Diesel	Average	1.00	10.0	385	0.50
Downstream Apron: Zone C	Bore/Drill Rigs	Diesel	Average	2.00	10.0	385	0.50
Downstream Apron: Zone C	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Downstream Apron: Zone C	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Downstream Apron: Riprap Apron	Excavators	Diesel	Average	1.00	10.0	300	0.38
Downstream Apron: Riprap Apron	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37
Downstream Apron: Riprap Apron	Dumpers/Tenders	Diesel	Average	2.00	10.0	16.0	0.38
Downstream Apron: Riprap Bedding	Excavators	Diesel	Average	1.00	10.0	300	0.38
Downstream Apron: Riprap Bedding	Tractors/Loaders/Backhoes	Diesel	Average	1.00	10.0	286	0.37

Downstream Apron: Riprap Bedding	Dumpers/Tenders	Diesel	Average	2.00	10.0	16.0	0.38
Furnish and Install Electrical / Controls and Instrumentation	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Furnish and Install Electrical / Controls and Instrumentation	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Furnish and Install Electrical / Controls and Instrumentation	Excavators	Diesel	Average	1.00	10.0	74.0	0.38
Furnish and Install Aeration System	Forklifts	Diesel	Average	1.00	10.0	142	0.20
Furnish and Install Aeration System	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Furnish and Install Aeration System	Excavators	Diesel	Average	1.00	10.0	74.0	0.38
Part 1 Furnish and Install Erosion Control Measures	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Part 1 Furnish and Install Erosion Control Measures	Excavators	Diesel	Average	1.00	10.0	74.0	0.38
Part 2 Furnish and Install Erosion Control Measures	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Part 2 Furnish and Install Erosion Control Measures	Excavators	Diesel	Average	1.00	10.0	74.0	0.38
Part 3 Furnish and Install Erosion Control Measures	Skid Steer Loaders	Diesel	Average	1.00	10.0	107	0.37
Part 3 Furnish and Install Erosion Control Measures	Excavators	Diesel	Average	1.00	10.0	74.0	0.38
Embankment Mitigation	Rubber Tired Dozers	Diesel	Average	4.00	10.0	367	0.40

Embankment Mitigation	Excavators	Diesel	Average	2.00	10.0	36.0	0.38
Embankment Mitigation	Graders	Diesel	Average	2.00	10.0	148	0.41
Embankment Mitigation	Tractors/Loaders/Backhoes	Diesel	Average	2.00	10.0	84.0	0.37
Embankment Mitigation	Dumpers/Tenders	Diesel	Average	4.00	10.0	16.0	0.38
Embankment Mitigation	Plate Compactors	Diesel	Average	3.00	10.0	8.00	0.43

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Part 1 Site Demolition (Excludes Spillway)	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Part 1 Site Demolition (Excludes Spillway)	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Part 2 Site Demolition (Excludes Spillway)	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Part 2 Site Demolition (Excludes Spillway)	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Spillway Demolition: Existing Spillway Demo	Concrete/Industrial Saws	Diesel	Tier 4 Final	4.00	10.0	33.0	0.73
Spillway Demolition: Existing Spillway Demo	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Spillway Demolition: Existing Spillway Demo	Crushing/Proc. Equipment	Gasoline	Average	2.00	10.0	12.0	0.85
Spillway Demolition: Existing Spillway Demo	Excavators	Diesel	Tier 4 Final	2.00	10.0	36.0	0.38

Spillway Demolition: Existing Spillway Demo	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	10.0	376	0.38
Spillway Demolition: Existing Spillway Demo	Welders	Diesel	Tier 4 Final	1.00	10.0	46.0	0.45
Spillway Demolition: Existing Spillway Demo	Air Compressors	Diesel	Tier 4 Final	3.00	10.0	37.0	0.48
Spillway Demolition: Crush Concrete Demo	Crushing/Proc. Equipment	Gasoline	Average	1.00	10.0	12.0	0.85
Spillway Demolition: Crush Concrete Demo	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Spillway Demolition: Crush Concrete Demo	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Spillway Demolition: Crush Concrete Demo	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	10.0	464	0.38
Spillway Demolition: Bridge Pier and Facing Demo	Concrete/Industrial Saws	Diesel	Tier 4 Final	4.00	10.0	33.0	0.73
Spillway Demolition: Bridge Pier and Facing Demo	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Spillway Demolition: Bridge Pier and Facing Demo	Crushing/Proc. Equipment	Gasoline	Average	2.00	10.0	12.0	0.85
Spillway Demolition: Bridge Pier and Facing Demo	Excavators	Diesel	Tier 4 Final	2.00	10.0	36.0	0.38
Spillway Demolition: Bridge Pier and Facing Demo	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	10.0	376	0.38
Spillway Demolition: Bridge Pier and Facing Demo	Welders	Diesel	Tier 4 Final	1.00	10.0	46.0	0.45

Spillway Demolition: Bridge Pier and Facing Demo	Air Compressors	Diesel	Tier 4 Final	3.00	10.0	37.0	0.48
Temporary Flood Control Berm	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Temporary Flood Control Berm	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	10.0	464	0.38
Temporary Flood Control Berm	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	474	0.40
Temporary Flood Control Berm	Rollers	Diesel	Tier 4 Final	1.00	10.0	117	0.38
Mobilization	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Mobilization	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Mobilization	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	10.0	464	0.38
Mobilization	Graders	Diesel	Tier 4 Final	1.00	10.0	180	0.41
Mobilization	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Mobilization	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	10.0	107	0.37
Mobilization	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Demobilization	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Demobilization	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Demobilization	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	10.0	464	0.38
Demobilization	Graders	Diesel	Tier 4 Final	1.00	10.0	180	0.41
Demobilization	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Demobilization	Skid Steer Loaders	Diesel	Tier 4 Final	2.00	10.0	107	0.37
Demobilization	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Cleanup	Scrapers	Diesel	Tier 4 Final	2.00	10.0	515	0.48
Cleanup	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	10.0	354	0.40
Cleanup	Graders	Diesel	Tier 4 Final	1.00	10.0	290	0.41
Cleanup	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	313	0.37

Allowance for Piping Install	Excavators	Diesel	Tier 4 Final	1.00	10.0	300	0.38
Allowance for Piping Install	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	241	0.37
Allowance for Piping Install	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Bypass Pumping Diversion Beam	Generator Sets	Diesel	Average	1.00	24.0	14.0	0.74
Inclined Inlet Structure: Steel Pipe and Appurtenances	Rollers	Diesel	Tier 4 Final	1.00	10.0	36.0	0.38
Inclined Inlet Structure: Steel Pipe and Appurtenances	Excavators	Diesel	Tier 4 Final	2.00	20.0	36.0	0.38
Inclined Inlet Structure: Steel Pipe and Appurtenances	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	84.0	0.37
Inclined Inlet Structure: Steel Pipe and Appurtenances	Welders	Diesel	Tier 4 Final	1.00	10.0	46.0	0.45
Inclined Inlet Structure: Steel Pipe and Appurtenances	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Inclined Inlet Structure: Reinforced Concrete	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Inclined Inlet Structure: Reinforced Concrete	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Inclined Inlet Structure: Reinforced Concrete	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Inclined Inlet Structure: Reinforced Concrete	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40

Inclined Inlet Structure: Reinforced Concrete	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Inclined Inlet Structure: Reinforced Concrete	Cement and Mortar Mixers	Diesel	Average	3.00	10.0	10.0	0.56
Inclined Inlet Structure: Drilled Foundation Anchors	Bore/Drill Rigs	Diesel	Tier 4 Final	2.00	10.0	385	0.50
Inclined Inlet Structure: Drilled Foundation Anchors	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Inclined Inlet Structure: Drilled Foundation Anchors	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Inclined Inlet Structure: Excavation	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Inclined Inlet Structure: Excavation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	10.0	464	0.38
Inclined Inlet Structure: Stainless Steel Platform	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Inclined Inlet Structure: Stainless Steel Platform	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Inclined Inlet Structure: Stainless Steel Platform	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Inclined Inlet Structure: Pneumatic Actuation Control System	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Inclined Inlet Structure: Pneumatic Actuation Control System	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20

Inclined Inlet Structure: Pneumatic Actuation Control System	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	10.0	96.0	0.40
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Aerial Lifts	Diesel	Tier 4 Final	2.00	10.0	46.0	0.31
Cofferdam Installation and Removal: Dewatering	Generator Sets	Diesel	Average	2.00	24.0	14.0	0.74
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Rough Terrain Forklifts	Diesel	Tier 4 Final	1.00	10.0	96.0	0.40
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Aerial Lifts	Diesel	Tier 4 Final	2.00	10.0	46.0	0.31
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Graders	Diesel	Tier 4 Final	1.00	10.0	290	0.41
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Scrapers	Diesel	Tier 4 Final	3.00	10.0	515	0.48

Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	265	0.40
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	10.0	464	0.38
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	474	0.40
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Rollers	Diesel	Tier 4 Final	1.00	10.0	405	0.38
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Graders	Diesel	Tier 4 Final	1.00	10.0	238	0.41
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	241	0.37
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Rollers	Diesel	Tier 4 Final	1.00	10.0	112	0.38
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Excavators	Diesel	Tier 4 Final	1.00	10.0	300	0.38
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	10.0	464	0.38

Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	5.00	170	0.40
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	241	0.37
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	106	0.37
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74

Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	173	0.50
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Dam Control Building: Pt 1 CMU Control Building	Forklifts	Diesel	Tier 4 Final	1.00	5.00	142	0.20
Dam Control Building: Pt 1 CMU Control Building	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Dam Control Building: Pt 1 CMU Control Building	Excavators	Diesel	Tier 4 Final	1.00	5.00	74.0	0.38
Dam Control Building: Pt 2 CMU Control Building	Forklifts	Diesel	Tier 4 Final	1.00	5.00	142	0.20
Dam Control Building: Pt 2 CMU Control Building	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Dam Control Building: Pt 2 CMU Control Building	Excavators	Diesel	Tier 4 Final	1.00	5.00	74.0	0.38
Dam Control Building: Reinforced Concrete Foundation	Forklifts	Diesel	Tier 4 Final	1.00	5.00	142	0.20

Dam Control Building: Reinforced Concrete Foundation	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Dam Control Building: Reinforced Concrete Foundation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Dam Control Building: Reinforced Concrete Foundation	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Dam Control Building: Reinforced Concrete Foundation	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Dam Control Building: Reinforced Concrete Foundation	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Dam Control Building: Reinforced Concrete Foundation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Dam Control Building: Reinforced Concrete Foundation	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Dam Control Building: Metal Frame Roofing	Forklifts	Diesel	Tier 4 Final	1.00	5.00	142	0.20
Dam Control Building: Metal Frame Roofing	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Dam Control Building: Ancillary Features	Forklifts	Diesel	Tier 4 Final	1.00	5.00	142	0.20
Dam Control Building: Ancillary Features	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Excavators	Diesel	Tier 4 Final	1.00	10.0	300	0.38

Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	10.0	464	0.38
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	170	0.40
Downstream Outlet Works Piping and Vault: Structure Bkfl	Excavators	Diesel	Tier 4 Final	1.00	10.0	300	0.38
Downstream Outlet Works Piping and Vault: Structure Bkfl	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	241	0.37
Downstream Outlet Works Piping and Vault: Structure Bkfl	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	10.0	464	0.38
Downstream Outlet Works Piping and Vault: Structure Bkfl	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Forklifts	Diesel	Tier 4 Final	1.00	5.00	142	0.20
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37

Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	173	0.50
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Cement and Mortar Mixers	Diesel	Average	3.00	10.0	10.0	0.56
Downstream Outlet Works Piping and Vault: Piping and Valves	Rollers	Diesel	Tier 4 Final	1.00	10.0	36.0	0.38
Downstream Outlet Works Piping and Vault: Piping and Valves	Excavators	Diesel	Tier 4 Final	3.00	10.0	36.0	0.38
Downstream Outlet Works Piping and Vault: Piping and Valves	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	84.0	0.37
Downstream Outlet Works Piping and Vault: Piping and Valves	Welders	Diesel	Tier 4 Final	1.00	10.0	46.0	0.45
Downstream Outlet Works Piping and Vault: Steel Casing	Rollers	Diesel	Tier 4 Final	1.00	10.0	36.0	0.38

Downstream Outlet Works Piping and Vault: Steel Casing	Excavators	Diesel	Tier 4 Final	3.00	10.0	36.0	0.38
Downstream Outlet Works Piping and Vault: Steel Casing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	84.0	0.37
Downstream Outlet Works Piping and Vault: Steel Casing	Welders	Diesel	Tier 4 Final	1.00	10.0	46.0	0.45
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Forklifts	Diesel	Tier 4 Final	1.00	5.00	142	0.20
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Excavators	Diesel	Tier 4 Final	1.00	8.00	300	0.38
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	241	0.37
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Plate Compactors	Diesel	Average	1.00	5.00	8.00	0.43
Downstream Outlet Works Piping and Vault: Dewatering	Generator Sets	Diesel	Average	1.00	24.0	14.0	0.74

Downstream Outlet Works Piping and Vault: ARVs and Valves	Excavators	Diesel	Tier 4 Final	1.00	5.00	300	0.38
Downstream Outlet Works Piping and Vault: ARVs and Valves	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	241	0.37
Downstream Outlet Works Piping and Vault: ARVs and Valves	Plate Compactors	Diesel	Average	1.00	5.00	8.00	0.43
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Excavators	Diesel	Tier 4 Final	1.00	10.0	300	0.38
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	10.0	464	0.38
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Forklifts	Diesel	Tier 4 Final	1.00	5.00	142	0.20
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	8.00	107	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Pumps	Diesel	Average	1.00	5.00	11.0	0.74
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Cranes	Diesel	Average	1.00	10.0	367	0.29
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Graders	Diesel	Tier 4 Final	1.00	10.0	290	0.41
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Scrapers	Diesel	Tier 4 Final	3.00	10.0	515	0.48
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	265	0.40
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Bore/Drill Rigs	Diesel	Tier 4 Final	2.00	10.0	385	0.50
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Bore/Drill Rigs	Diesel	Average	1.00	10.0	385	0.50
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	385	0.50
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Excavators	Diesel	Tier 4 Final	1.00	10.0	201	0.38
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Air Compressors	Diesel	Tier 4 Final	1.00	10.0	37.0	0.48
Spillway Site Excavations	Excavators	Diesel	Tier 4 Final	1.00	10.0	485	0.38
Spillway Site Excavations	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Spillway Site Excavations	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	10.0	464	0.38
Spillway Site Excavations	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	474	0.40
Rock Slope Stabilization	Bore/Drill Rigs	Diesel	Average	1.00	10.0	385	0.50
Rock Slope Stabilization	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	385	0.50
Rock Slope Stabilization	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Rock Slope Stabilization	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Rock Slope Stabilization	Excavators	Diesel	Tier 4 Final	1.00	10.0	201	0.38
Rock Slope Stabilization	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Rock Slope Stabilization	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	173	0.50
Rock Slope Stabilization	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Rock Slope Stabilization	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Rock Slope Stabilization	Air Compressors	Diesel	Tier 4 Final	1.00	10.0	37.0	0.48
RCC Weir Support Block	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	173	0.50

RCC Weir Support Block	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
RCC Weir Support Block	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
RCC Weir Support Block	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
RCC Weir Support Block	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74
RCC Weir Support Block	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	10.0	84.0	0.37
RCC Weir Support Block	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
RCC Weir Support Block	Rollers	Diesel	Tier 4 Final	3.00	10.0	36.0	0.38
RCC Weir Support Block	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	10.0	367	0.40
RCC Weir Support Block	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	10.0	376	0.38
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	173	0.50
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74

Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	10.0	84.0	0.37
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Rollers	Diesel	Tier 4 Final	3.00	10.0	36.0	0.38
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	10.0	367	0.40
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	10.0	376	0.38
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40

Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Cement and Mortar Mixers	Diesel	Average	2.00	5.00	10.0	0.56
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Bore/Drill Rigs	Diesel	Tier 4 Final	2.00	10.0	173	0.50

Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Tractors/Loaders/Back	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Excavators	Diesel	Tier 4 Final	2.00	10.0	425	0.38
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	10.0	464	0.38
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	354	0.40
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74

Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Air Compressors	Diesel	Tier 4 Final	1.00	10.0	37.0	0.48
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29

Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Bore/Drill Rigs	Diesel	Tier 4 Final	2.00	10.0	385	0.50
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37

Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Excavators	Diesel	Tier 4 Final	1.00	10.0	201	0.38
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Cement and Mortar Mixers	Diesel	Average	4.00	10.0	10.0	0.56
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Excavators	Diesel	Tier 4 Final	2.00	10.0	425	0.38
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	10.0	464	0.38
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	354	0.40

Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	173	0.50
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Air Compressors	Diesel	Tier 4 Final	1.00	10.0	37.0	0.48
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30

Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Tractors/Loaders/Back hoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56

Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Bore/Drill Rigs	Diesel	Tier 4 Final	2.00	10.0	83.0	0.50
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Excavators	Diesel	Tier 4 Final	1.00	10.0	201	0.38
Wall Transitions: Left Secant Pile Walls	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Wall Transitions: Left Secant Pile Walls	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Wall Transitions: Left Secant Pile Walls	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Wall Transitions: Left Secant Pile Walls	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Wall Transitions: Left Secant Pile Walls	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Wall Transitions: Left Secant Pile Walls	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Transitions: Left Secant Pile Walls	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Transitions: Left Secant Pile Walls	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Transitions: Left Secant Pile Walls	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Wall Transitions: Right Secant Pile Wall	Excavators	Diesel	Tier 4 Final	2.00	10.0	425	0.38

Wall Transitions: Right Secant Pile Wall	Cranes	Diesel	Tier 4 Final	1.00	5.00	367	0.29
Wall Transitions: Right Secant Pile Wall	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Wall Transitions: Right Secant Pile Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Wall Transitions: Right Secant Pile Wall	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Transitions: Right Secant Pile Wall	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Transitions: Right Secant Pile Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Transitions: Right Secant Pile Wall	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Right Closure Wall: Work Platform Construction	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Right Closure Wall: Work Platform Construction	Off-Highway Trucks	Diesel	Tier 4 Final	2.00	10.0	464	0.38
Right Closure Wall: Work Platform Construction	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	354	0.40
Right Closure Wall: Work Platform Construction	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Right Closure Wall: Secant Pile Wall	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Right Closure Wall: Secant Pile Wall	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Right Closure Wall: Secant Pile Wall	Excavators	Diesel	Tier 4 Final	1.00	10.0	425	0.38
Right Closure Wall: Secant Pile Wall	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Right Closure Wall: Secant Pile Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37

Right Closure Wall: Secant Pile Wall	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Right Closure Wall: Secant Pile Wall	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Right Closure Wall: Secant Pile Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Right Closure Wall: Secant Pile Wall	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Right Closure Wall: Backfill Concrete	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Right Closure Wall: Backfill Concrete	Pumps	Diesel	Average	1.00	5.00	11.0	0.74
Right Closure Wall: Backfill Concrete	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Right Closure Wall: Backfill Concrete	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Right Closure Wall: Backfill Concrete	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Right Closure Wall: Backfill Concrete	Cement and Mortar Mixers	Diesel	Average	3.00	10.0	10.0	0.56
Wall Type 2 - Left: Leveling Concrete	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Wall Type 2 - Left: Leveling Concrete	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Left: Leveling Concrete	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 2 - Left: Leveling Concrete	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Wall Type 2 - Left: Leveling Concrete	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 2 - Left: 1 Inch Concrete Wall	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Wall Type 2 - Left: 1 Inch Concrete Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74

Wall Type 2 - Left: 1 Inch Concrete Wall	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 2 - Left: 1 Inch Concrete Wall	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 2 - Left: 1 Inch Concrete Wall	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Left: 1 Inch Concrete Wall	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 2 - Left: 1 Inch Concrete Wall	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 2 - Left: 1 Inch Concrete Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 2 - Left: 1 Inch Concrete Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Left: Concrete Footing	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30

Wall Type 2 - Left: Concrete Footing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Left: Concrete Footing	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 2 - Left: Concrete Footing	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 2 - Left: Concrete Footing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Left: Concrete Footing	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 2 - Left: Concrete Footing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 2 - Left: Concrete Footing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 2 - Left: Concrete Footing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Left: Backfill	Graders	Diesel	Tier 4 Final	1.00	10.0	215	0.41
Wall Type 2 - Left: Backfill	Excavators	Diesel	Tier 4 Final	1.00	10.0	36.0	0.38
Wall Type 2 - Left: Backfill	Rollers	Diesel	Tier 4 Final	2.00	10.0	36.0	0.38
Wall Type 2 - Left: Backfill	Off-Highway Trucks	Diesel	Average	4.00	10.0	376	0.38
Wall Type 2 - Left: Backfill	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	10.0	376	0.38
Wall Type 2 - Left: Backfill	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	10.0	376	0.38
Wall Type 2 - Left: Reinforced Concrete Wall	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Wall Type 2 - Left: Reinforced Concrete Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74

Wall Type 2 - Left: Reinforced Concrete Wall	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 2 - Left: Reinforced Concrete Wall	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 2 - Left: Reinforced Concrete Wall	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Left: Reinforced Concrete Wall	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 2 - Left: Reinforced Concrete Wall	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 2 - Left: Reinforced Concrete Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 2 - Left: Reinforced Concrete Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Bore/Drill Rigs	Diesel	Tier 4 Final	2.00	10.0	385	0.50
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Graders	Diesel	Tier 4 Final	1.00	10.0	215	0.41
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Excavators	Diesel	Tier 4 Final	1.00	10.0	36.0	0.38

Wall Type 2 - Left: Footing Rock Anchors and Backfill	Rollers	Diesel	Tier 4 Final	2.00	10.0	36.0	0.38
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Off-Highway Trucks	Diesel	Tier 4 Final	6.00	10.0	376	0.38
Wall Type 2 - Wall Right: Leveling Concrete	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Wall Type 2 - Wall Right: Leveling Concrete	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Wall Right: Leveling Concrete	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 2 - Wall Right: Leveling Concrete	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 2 - Wall Right: Leveling Concrete	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Wall Right: Leveling Concrete	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 2 - Wall Right: Leveling Concrete	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 2 - Wall Right: Leveling Concrete	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 2 - Wall Right: Leveling Concrete	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Wall Right: 1 Inch Wall	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Wall Type 2 - Wall Right: 1 Inch Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74

Wall Type 2 - Wall Right: 1 Inch Wall	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 2 - Wall Right: 1 Inch Wall	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 2 - Wall Right: 1 Inch Wall	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Wall Right: 1 Inch Wall	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 2 - Wall Right: 1 Inch Wall	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 2 - Wall Right: 1 Inch Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 2 - Wall Right: 1 Inch Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Wall Right: 2.5 Inch Wall	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Wall Type 2 - Wall Right: 2.5 Inch Wall	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Wall Right: 2.5 Inch Wall	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 2 - Wall Right: 2.5 Inch Wall	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 2 - Wall Right: 2.5 Inch Wall	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Wall Right: 2.5 Inch Wall	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 2 - Wall Right: 2.5 Inch Wall	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 2 - Wall Right: 2.5 Inch Wall	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 2 - Wall Right: 2.5 Inch Wall	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Wall Right: Concrete Footing	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30

Wall Type 2 - Wall Right: Concrete Footing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 2 - Wall Right: Concrete Footing	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 2 - Wall Right: Concrete Footing	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 2 - Wall Right: Concrete Footing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 2 - Wall Right: Concrete Footing	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 2 - Wall Right: Concrete Footing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 2 - Wall Right: Concrete Footing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 2 - Wall Right: Concrete Footing	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Wall Type 2 - Wall Right: Backfill	Graders	Diesel	Tier 4 Final	1.00	10.0	215	0.41
Wall Type 2 - Wall Right: Backfill	Excavators	Diesel	Tier 4 Final	1.00	10.0	36.0	0.38
Wall Type 2 - Wall Right: Backfill	Rollers	Diesel	Tier 4 Final	2.00	10.0	36.0	0.38
Wall Type 2 - Wall Right: Backfill	Off-Highway Trucks	Diesel	Tier 4 Final	6.00	10.0	376	0.38
Wall Type 3 - Left: Roller Compacted Concrete	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	173	0.50

Wall Type 3 - Left: Roller Compacted Concrete	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Wall Type 3 - Left: Roller Compacted Concrete	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Wall Type 3 - Left: Roller Compacted Concrete	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Wall Type 3 - Left: Roller Compacted Concrete	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74
Wall Type 3 - Left: Roller Compacted Concrete	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	10.0	84.0	0.37
Wall Type 3 - Left: Roller Compacted Concrete	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Wall Type 3 - Left: Roller Compacted Concrete	Rollers	Diesel	Tier 4 Final	3.00	10.0	36.0	0.38
Wall Type 3 - Left: Roller Compacted Concrete	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	10.0	367	0.40
Wall Type 3 - Left: Roller Compacted Concrete	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	10.0	376	0.38
Wall Type 3 - Left: CVC Facing	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Wall Type 3 - Left: CVC Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 3 - Left: CVC Facing	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 3 - Left: CVC Facing	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 3 - Left: CVC Facing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74

Wall Type 3 - Left: CVC Facing	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 3 - Left: CVC Facing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 3 - Left: CVC Facing	Skid Steer Loaders	Diesel	Tier 4 Final	5.00	5.00	71.0	0.37
Wall Type 3 - Left: CVC Facing	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Wall Type 3 - Right: Roller Compacted Concrete	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	173	0.50
Wall Type 3 - Right: Roller Compacted Concrete	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Wall Type 3 - Right: Roller Compacted Concrete	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Wall Type 3 - Right: Roller Compacted Concrete	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Wall Type 3 - Right: Roller Compacted Concrete	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74
Wall Type 3 - Right: Roller Compacted Concrete	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	10.0	84.0	0.37
Wall Type 3 - Right: Roller Compacted Concrete	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Wall Type 3 - Right: Roller Compacted Concrete	Rollers	Diesel	Tier 4 Final	3.00	10.0	36.0	0.38
Wall Type 3 - Right: Roller Compacted Concrete	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	10.0	367	0.40

Wall Type 3 - Right: Roller Compacted Concrete	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	10.0	376	0.38
Wall Type 3 - Right: CVC Facing	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Wall Type 3 - Right: CVC Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Wall Type 3 - Right: CVC Facing	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Wall Type 3 - Right: CVC Facing	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Wall Type 3 - Right: CVC Facing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Wall Type 3 - Right: CVC Facing	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Wall Type 3 - Right: CVC Facing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Wall Type 3 - Right: CVC Facing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Wall Type 3 - Right: CVC Facing	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Wall Type 3 - Right: Backfill	Graders	Diesel	Tier 4 Final	1.00	10.0	215	0.41
Wall Type 3 - Right: Backfill	Excavators	Diesel	Tier 4 Final	1.00	10.0	36.0	0.38
Wall Type 3 - Right: Backfill	Rollers	Diesel	Tier 4 Final	2.00	10.0	36.0	0.38
Wall Type 3 - Right: Backfill	Off-Highway Trucks	Diesel	Tier 4 Final	6.00	10.0	376	0.38
Stilling Basin: RCC	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	173	0.50
Stilling Basin: RCC	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Stilling Basin: RCC	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Stilling Basin: RCC	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Stilling Basin: RCC	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74

Stilling Basin: RCC	Tractors/Loaders/Back	Diesel	Tier 4 Final	3.00	10.0	84.0	0.37
Stilling Basin: RCC	Pumps	Diesel	Average	3.00	10.0	11.0	0.74
Stilling Basin: RCC	Rollers	Diesel	Tier 4 Final	3.00	10.0	36.0	0.38
Stilling Basin: RCC	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	10.0	367	0.40
Stilling Basin: RCC	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	10.0	376	0.38
Stilling Basin: Upstream/Downstream CVC Facing	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Stilling Basin: Upstream/Downstream CVC Facing	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Stilling Basin: Upstream/Downstream CVC Facing	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Stilling Basin: Upstream/Downstream CVC Facing	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Stilling Basin: Upstream/Downstream CVC Facing	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Stilling Basin: Upstream/Downstream CVC Facing	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Stilling Basin: Upstream/Downstream CVC Facing	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Stilling Basin: Upstream/Downstream CVC Facing	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Stilling Basin: Upstream/Downstream CVC Facing	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Stilling Basin: Basin Steps	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Stilling Basin: Basin Steps	Pumps	Diesel	Average	1.00	10.0	11.0	0.74

Stilling Basin: Basin Steps	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Stilling Basin: Basin Steps	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Stilling Basin: Basin Steps	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Stilling Basin: Basin Steps	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Stilling Basin: Basin Steps	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Stilling Basin: Basin Steps	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Stilling Basin: Basin Steps	Cement and Mortar Mixers	Diesel	Average	2.00	10.0	10.0	0.56
Stilling Basin: Chute Blocks	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Stilling Basin: Chute Blocks	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Stilling Basin: Chute Blocks	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Stilling Basin: Chute Blocks	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Stilling Basin: Chute Blocks	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Stilling Basin: Chute Blocks	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	173	0.50
Stilling Basin: Chute Blocks	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	2.00	286	0.37
Stilling Basin: Chute Blocks	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	2.00	107	0.37
Stilling Basin: Chute Blocks	Cement and Mortar Mixers	Diesel	Average	2.00	2.00	10.0	0.56
Stilling Basin: Dentated Sill	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30

Stilling Basin: Dentated Sill	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Stilling Basin: Dentated Sill	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Stilling Basin: Dentated Sill	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Stilling Basin: Dentated Sill	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Stilling Basin: Dentated Sill	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	2.00	173	0.50
Stilling Basin: Dentated Sill	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	2.00	286	0.37
Stilling Basin: Dentated Sill	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	2.00	107	0.37
Stilling Basin: Dentated Sill	Cement and Mortar Mixers	Diesel	Average	2.00	2.00	10.0	0.56
Spillway Slab Construction: RCC Foundation Support Block	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	173	0.50
Spillway Slab Construction: RCC Foundation Support Block	Pumps	Diesel	Average	6.00	10.0	11.0	0.74
Spillway Slab Construction: RCC Foundation Support Block	Plate Compactors	Diesel	Average	1.00	10.0	8.00	0.43
Spillway Slab Construction: RCC Foundation Support Block	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Spillway Slab Construction: RCC Foundation Support Block	Generator Sets	Diesel	Average	4.00	10.0	14.0	0.74

Spillway Slab Construction: RCC Foundation Support Block	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	10.0	84.0	0.37
Spillway Slab Construction: RCC Foundation Support Block	Rollers	Diesel	Tier 4 Final	3.00	10.0	36.0	0.38
Spillway Slab Construction: RCC Foundation Support Block	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	10.0	367	0.40
Spillway Slab Construction: RCC Foundation Support Block	Off-Highway Trucks	Diesel	Tier 4 Final	5.00	10.0	376	0.38
Spillway Slab Construction: Spillway Chute Slab	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Spillway Slab Construction: Spillway Chute Slab	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Spillway Slab Construction: Spillway Chute Slab	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Spillway Slab Construction: Spillway Chute Slab	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Spillway Slab Construction: Spillway Chute Slab	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Spillway Slab Construction: Spillway Chute Slab	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Spillway Slab Construction: Spillway Chute Slab	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37

Spillway Slab Construction: Spillway Chute Slab	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Spillway Slab Construction: Spillway Chute Slab	Cement and Mortar Mixers	Diesel	Average	3.00	10.0	10.0	0.56
Spillway Slab Construction: Stilling Basin Slab	Surfacing Equipment	Diesel	Tier 4 Final	2.00	10.0	399	0.30
Spillway Slab Construction: Stilling Basin Slab	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Spillway Slab Construction: Stilling Basin Slab	Cranes	Diesel	Tier 4 Final	2.00	10.0	367	0.29
Spillway Slab Construction: Stilling Basin Slab	Rough Terrain Forklifts	Diesel	Tier 4 Final	2.00	10.0	96.0	0.40
Spillway Slab Construction: Stilling Basin Slab	Generator Sets	Diesel	Average	2.00	10.0	14.0	0.74
Spillway Slab Construction: Stilling Basin Slab	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	5.00	173	0.50
Spillway Slab Construction: Stilling Basin Slab	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	5.00	286	0.37
Spillway Slab Construction: Stilling Basin Slab	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	5.00	107	0.37
Spillway Slab Construction: Stilling Basin Slab	Cement and Mortar Mixers	Diesel	Average	3.00	10.0	10.0	0.56
Spillway Slab Construction: Zone B	Bore/Drill Rigs	Diesel	Tier 4 Final	2.00	10.0	385	0.50
Spillway Slab Construction: Zone B	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37

Spillway Slab Construction: Zone B	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Spillway Slab Construction: Zone C	Bore/Drill Rigs	Diesel	Tier 4 Final	2.00	10.0	385	0.50
Spillway Slab Construction: Zone C	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Spillway Slab Construction: Zone C	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Excavators	Diesel	Tier 4 Final	1.00	10.0	74.0	0.38
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Excavators	Diesel	Tier 4 Final	1.00	10.0	74.0	0.38
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Excavators	Diesel	Tier 4 Final	1.00	10.0	74.0	0.38
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Spillway Drains and Cleanouts: Drain Gravel	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Spillway Drains and Cleanouts: Drain Gravel	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	170	0.40
Spillway Drains and Cleanouts: Drain Gravel	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	10.0	376	0.38

Spillway Drains and Cleanouts: Filter Sand	Tractors/Loaders/Back	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Spillway Drains and Cleanouts: Filter Sand	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	10.0	170	0.40
Spillway Drains and Cleanouts: Filter Sand	Off-Highway Trucks	Diesel	Tier 4 Final	1.00	10.0	376	0.38
Surface Ditch from Landfill: Excavation	Excavators	Diesel	Tier 4 Final	1.00	10.0	74.0	0.38
Surface Ditch from Landfill: Excavation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Surface Ditch from Landfill: Drop Structures	Excavators	Diesel	Tier 4 Final	1.00	10.0	74.0	0.38
Surface Ditch from Landfill: Drop Structures	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Surface Ditch from Landfill: Ditch Lining	Excavators	Diesel	Tier 4 Final	1.00	10.0	300	0.38
Surface Ditch from Landfill: Ditch Lining	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Surface Ditch from Landfill: Ditch Lining	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Surface Ditch from Landfill: Ditch Lining	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	241	0.37
Surface Ditch from Landfill: Ditch Lining	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Downstream Apron: Concrete Apron	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Downstream Apron: Concrete Apron	Generator Sets	Diesel	Average	1.00	10.0	14.0	0.74
Downstream Apron: Concrete Apron	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Downstream Apron: Concrete Apron	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37

Downstream Apron: Concrete Apron	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Downstream Apron: Concrete Apron	Cement and Mortar Mixers	Diesel	Average	1.00	10.0	10.0	0.56
Downstream Apron: Concrete Apron	Cranes	Diesel	Tier 4 Final	1.00	10.0	367	0.29
Downstream Apron: Concrete Apron	Pumps	Diesel	Average	1.00	10.0	11.0	0.74
Downstream Apron: Concrete Apron	Bore/Drill Rigs	Diesel	Tier 4 Final	1.00	10.0	385	0.50
Downstream Apron: Zone C	Bore/Drill Rigs	Diesel	Tier 4 Final	2.00	10.0	385	0.50
Downstream Apron: Zone C	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Downstream Apron: Zone C	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Downstream Apron: Riprap Apron	Excavators	Diesel	Tier 4 Final	1.00	10.0	300	0.38
Downstream Apron: Riprap Apron	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Downstream Apron: Riprap Apron	Dumpers/Tenders	Diesel	Average	2.00	10.0	16.0	0.38
Downstream Apron: Riprap Bedding	Excavators	Diesel	Tier 4 Final	1.00	10.0	300	0.38
Downstream Apron: Riprap Bedding	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	1.00	10.0	286	0.37
Downstream Apron: Riprap Bedding	Dumpers/Tenders	Diesel	Average	2.00	10.0	16.0	0.38
Furnish and Install Electrical / Controls and Instrumentation	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Furnish and Install Electrical / Controls and Instrumentation	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37

Furnish and Install Electrical / Controls and Instrumentation	Excavators	Diesel	Tier 4 Final	1.00	10.0	74.0	0.38
Furnish and Install Aeration System	Forklifts	Diesel	Tier 4 Final	1.00	10.0	142	0.20
Furnish and Install Aeration System	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Furnish and Install Aeration System	Excavators	Diesel	Tier 4 Final	1.00	10.0	74.0	0.38
Part 1 Furnish and Install Erosion Control Measures	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Part 1 Furnish and Install Erosion Control Measures	Excavators	Diesel	Tier 4 Final	1.00	10.0	74.0	0.38
Part 2 Furnish and Install Erosion Control Measures	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Part 2 Furnish and Install Erosion Control Measures	Excavators	Diesel	Tier 4 Final	1.00	10.0	74.0	0.38
Part 3 Furnish and Install Erosion Control Measures	Skid Steer Loaders	Diesel	Tier 4 Final	1.00	10.0	107	0.37
Part 3 Furnish and Install Erosion Control Measures	Excavators	Diesel	Tier 4 Final	1.00	10.0	74.0	0.38
Embankment Mitigation	Rubber Tired Dozers	Diesel	Tier 4 Final	4.00	10.0	367	0.40
Embankment Mitigation	Excavators	Diesel	Tier 4 Final	2.00	10.0	36.0	0.38
Embankment Mitigation	Graders	Diesel	Tier 4 Final	2.00	10.0	148	0.41
Embankment Mitigation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	10.0	84.0	0.37
Embankment Mitigation	Dumpers/Tenders	Diesel	Average	4.00	10.0	16.0	0.38

Embankment Mitigation	Plate Compactors	Diesel	Average	3.00	10.0	8.00	0.43

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Part 1 Site Demolition (Excludes Spillway)	—	—	—	—
Part 1 Site Demolition (Excludes Spillway)	Worker	5.00	18.5	LDA,LDT1,LDT2
Part 1 Site Demolition (Excludes Spillway)	Vendor	—	10.2	HHDT,MHDT
Part 1 Site Demolition (Excludes Spillway)	Hauling	0.00	20.0	HHDT
Part 1 Site Demolition (Excludes Spillway)	Onsite truck	—	—	HHDT
Part 2 Site Demolition (Excludes Spillway)	—	—	—	—
Part 2 Site Demolition (Excludes Spillway)	Worker	5.00	18.5	LDA,LDT1,LDT2
Part 2 Site Demolition (Excludes Spillway)	Vendor	—	10.2	HHDT,MHDT
Part 2 Site Demolition (Excludes Spillway)	Hauling	0.00	20.0	HHDT
Part 2 Site Demolition (Excludes Spillway)	Onsite truck	—	—	HHDT
Spillway Demolition: Existing Spillway Demo	—	—	—	—
Spillway Demolition: Existing Spillway Demo	Worker	35.0	18.5	LDA,LDT1,LDT2
Spillway Demolition: Existing Spillway Demo	Vendor	—	10.2	HHDT,MHDT

Spillway Demolition: Existing Spillway Demo	Hauling	24.0	12.1	HHDT
Spillway Demolition: Existing Spillway Demo	Onsite truck	—	—	HHDT
Spillway Demolition: Crush Concrete Demo	—	—	—	—
Spillway Demolition: Crush Concrete Demo	Worker	12.5	18.5	LDA,LDT1,LDT2
Spillway Demolition: Crush Concrete Demo	Vendor	—	10.2	HHDT,MHDT
Spillway Demolition: Crush Concrete Demo	Hauling	0.00	20.0	HHDT
Spillway Demolition: Crush Concrete Demo	Onsite truck	—	—	HHDT
Spillway Demolition: Bridge Pier and Facing Demo	—	—	—	—
Spillway Demolition: Bridge Pier and Facing Demo	Worker	35.0	18.5	LDA,LDT1,LDT2
Spillway Demolition: Bridge Pier and Facing Demo	Vendor	—	10.2	HHDT,MHDT
Spillway Demolition: Bridge Pier and Facing Demo	Hauling	0.00	20.0	HHDT
Spillway Demolition: Bridge Pier and Facing Demo	Onsite truck	—	—	HHDT
Temporary Flood Control Berm	—	—	—	—
Temporary Flood Control Berm	Worker	17.5	18.5	LDA,LDT1,LDT2
Temporary Flood Control Berm	Vendor	—	10.2	HHDT,MHDT
Temporary Flood Control Berm	Hauling	0.00	20.0	HHDT
Temporary Flood Control Berm	Onsite truck	—	—	HHDT
Mobilization	—	—	—	—
Mobilization	Worker	22.5	18.5	LDA,LDT1,LDT2
Mobilization	Vendor	—	10.2	HHDT,MHDT
Mobilization	Hauling	14.0	12.1	HHDT

Mobilization	Onsite truck	—	—	HHDT
Demobilization	—	—	—	—
Demobilization	Worker	22.5	18.5	LDA,LDT1,LDT2
Demobilization	Vendor	—	10.2	HHDT,MHDT
Demobilization	Hauling	12.0	12.1	HHDT
Demobilization	Onsite truck	—	—	HHDT
Cleanup	—	—	—	—
Cleanup	Worker	17.5	18.5	LDA,LDT1,LDT2
Cleanup	Vendor	—	10.2	HHDT,MHDT
Cleanup	Hauling	4.00	12.1	HHDT
Cleanup	Onsite truck	—	—	HHDT
Allowance for Piping Install	—	—	—	—
Allowance for Piping Install	Worker	7.50	18.5	LDA,LDT1,LDT2
Allowance for Piping Install	Vendor	—	10.2	HHDT,MHDT
Allowance for Piping Install	Hauling	0.00	20.0	HHDT
Allowance for Piping Install	Onsite truck	—	—	HHDT
Bypass Pumping Diversion Beam	—	—	—	—
Bypass Pumping Diversion Beam	Worker	2.50	18.5	LDA,LDT1,LDT2
Bypass Pumping Diversion Beam	Vendor	—	10.2	HHDT,MHDT
Bypass Pumping Diversion Beam	Hauling	128	20.0	HHDT
Bypass Pumping Diversion Beam	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Steel Pipe and Appurtenances	—	—	—	—
Inclined Inlet Structure: Steel Pipe and Appurtenances	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Steel Pipe and Appurtenances	Vendor	2.78	10.2	HHDT,MHDT
Inclined Inlet Structure: Steel Pipe and Appurtenances	Hauling	0.00	20.0	HHDT

Inclined Inlet Structure: Steel Pipe and Appurtenances	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Reinforced Concrete	—	—	—	—
Inclined Inlet Structure: Reinforced Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Reinforced Concrete	Vendor	2.78	10.2	HHDT,MHDT
Inclined Inlet Structure: Reinforced Concrete	Hauling	83.0	12.1	HHDT
Inclined Inlet Structure: Reinforced Concrete	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Drilled Foundation Anchors	—	—	—	—
Inclined Inlet Structure: Drilled Foundation Anchors	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Drilled Foundation Anchors	Vendor	2.78	10.2	HHDT,MHDT
Inclined Inlet Structure: Drilled Foundation Anchors	Hauling	0.00	20.0	HHDT
Inclined Inlet Structure: Drilled Foundation Anchors	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Excavation	—	—	—	—
Inclined Inlet Structure: Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Excavation	Vendor	2.78	10.2	HHDT,MHDT
Inclined Inlet Structure: Excavation	Hauling	0.00	20.0	HHDT
Inclined Inlet Structure: Excavation	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Stainless Steel Platform	—	—	—	—
Inclined Inlet Structure: Stainless Steel Platform	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Stainless Steel Platform	Vendor	2.78	10.2	HHDT,MHDT

Inclined Inlet Structure: Stainless Steel Platform	Hauling	0.00	20.0	HHDT
Inclined Inlet Structure: Stainless Steel Platform	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Pneumatic Actuation Control System	—	—	—	—
Inclined Inlet Structure: Pneumatic Actuation Control System	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Pneumatic Actuation Control System	Vendor	2.78	10.2	HHDT,MHDT
Inclined Inlet Structure: Pneumatic Actuation Control System	Hauling	0.00	20.0	HHDT
Inclined Inlet Structure: Pneumatic Actuation Control System	Onsite truck	—	—	HHDT
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	—	—	—	—
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Worker	7.11	18.5	LDA,LDT1,LDT2
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Vendor	2.78	10.2	HHDT,MHDT
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Hauling	0.00	20.0	HHDT
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Onsite truck	—	—	HHDT
Cofferdam Installation and Removal: Dewatering	—	—	—	—
Cofferdam Installation and Removal: Dewatering	Worker	7.11	18.5	LDA,LDT1,LDT2
Cofferdam Installation and Removal: Dewatering	Vendor	2.78	10.2	HHDT,MHDT
Cofferdam Installation and Removal: Dewatering	Hauling	0.00	20.0	HHDT
Cofferdam Installation and Removal: Dewatering	Onsite truck	—	—	HHDT

Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	—	—	—	—
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Worker	7.11	18.5	LDA,LDT1,LDT2
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Vendor	2.78	10.2	HHDT,MHDT
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Hauling	0.00	20.0	HHDT
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Hauling	0.00	20.0	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Hauling	0.00	20.0	HHDT

Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Hauling	0.00	20.0	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Hauling	0.00	20.0	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	—	—	—	—

Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Hauling	0.00	20.0	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Hauling	0.00	20.0	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Onsite truck	—	—	HHDT
Dam Control Building: Pt 1 CMU Control Building	—	—	—	—
Dam Control Building: Pt 1 CMU Control Building	Worker	7.11	18.5	LDA,LDT1,LDT2
Dam Control Building: Pt 1 CMU Control Building	Vendor	2.78	10.2	HHDT,MHDT
Dam Control Building: Pt 1 CMU Control Building	Hauling	7.84	20.0	HHDT
Dam Control Building: Pt 1 CMU Control Building	Onsite truck	—	—	HHDT

Dam Control Building: Pt 2 CMU Control Building	—	—	—	—
Dam Control Building: Pt 2 CMU Control Building	Worker	7.11	18.5	LDA,LDT1,LDT2
Dam Control Building: Pt 2 CMU Control Building	Vendor	2.78	10.2	HHDT,MHDT
Dam Control Building: Pt 2 CMU Control Building	Hauling	0.00	20.0	HHDT
Dam Control Building: Pt 2 CMU Control Building	Onsite truck	—	—	HHDT
Dam Control Building: Reinforced Concrete Foundation	—	—	—	—
Dam Control Building: Reinforced Concrete Foundation	Worker	7.11	18.5	LDA,LDT1,LDT2
Dam Control Building: Reinforced Concrete Foundation	Vendor	2.78	10.2	HHDT,MHDT
Dam Control Building: Reinforced Concrete Foundation	Hauling	0.00	20.0	HHDT
Dam Control Building: Reinforced Concrete Foundation	Onsite truck	—	—	HHDT
Dam Control Building: Metal Frame Roofing	—	—	—	—
Dam Control Building: Metal Frame Roofing	Worker	7.11	18.5	LDA,LDT1,LDT2
Dam Control Building: Metal Frame Roofing	Vendor	2.78	10.2	HHDT,MHDT
Dam Control Building: Metal Frame Roofing	Hauling	0.00	20.0	HHDT
Dam Control Building: Metal Frame Roofing	Onsite truck	—	—	HHDT
Dam Control Building: Ancillary Features	—	—	—	—
Dam Control Building: Ancillary Features	Worker	7.11	18.5	LDA,LDT1,LDT2

Dam Control Building: Ancillary Features	Vendor	2.78	10.2	HHDT,MHDT
Dam Control Building: Ancillary Features	Hauling	9.00	12.1	HHDT
Dam Control Building: Ancillary Features	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	—	—	—	—
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Structure Bkfl	—	—	—	—
Downstream Outlet Works Piping and Vault: Structure Bkfl	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Structure Bkfl	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Structure Bkfl	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Structure Bkfl	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	—	—	—	—
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Worker	7.11	18.5	LDA,LDT1,LDT2

Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Piping and Valves	—	—	—	—
Downstream Outlet Works Piping and Vault: Piping and Valves	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Piping and Valves	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Piping and Valves	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Piping and Valves	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Steel Casing	—	—	—	—
Downstream Outlet Works Piping and Vault: Steel Casing	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Steel Casing	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Steel Casing	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Steel Casing	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Ladders and Platforms	—	—	—	—
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Vendor	2.78	10.2	HHDT,MHDT

Downstream Outlet Works Piping and Vault: Ladders and Platforms	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	—	—	—	—
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Dewatering	—	—	—	—
Downstream Outlet Works Piping and Vault: Dewatering	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Dewatering	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Dewatering	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Dewatering	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: ARVs and Valves	—	—	—	—
Downstream Outlet Works Piping and Vault: ARVs and Valves	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: ARVs and Valves	Vendor	2.78	10.2	HHDT,MHDT

Downstream Outlet Works Piping and Vault: ARVs and Valves	Hauling	88.0	12.1	HHDT
Downstream Outlet Works Piping and Vault: ARVs and Valves	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	—	—	—	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Hauling	0.00	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	—	—	—	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Hauling	0.00	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	—	—	—	—

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Hauling	0.00	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	—	—	—	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Hauling	17.0	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	—	—	—	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Hauling	0.00	20.0	HHDT

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	—	—	—	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Hauling	0.00	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Onsite truck	—	—	HHDT
Spillway Site Excavations	—	—	—	—
Spillway Site Excavations	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Site Excavations	Vendor	2.78	10.2	HHDT,MHDT
Spillway Site Excavations	Hauling	18.0	12.1	HHDT
Spillway Site Excavations	Onsite truck	—	—	HHDT
Rock Slope Stabilization	—	—	—	—
Rock Slope Stabilization	Worker	7.11	18.5	LDA,LDT1,LDT2
Rock Slope Stabilization	Vendor	2.78	10.2	HHDT,MHDT
Rock Slope Stabilization	Hauling	0.00	20.0	HHDT
Rock Slope Stabilization	Onsite truck	—	—	HHDT
RCC Weir Support Block	—	—	—	—
RCC Weir Support Block	Worker	7.11	18.5	LDA,LDT1,LDT2
RCC Weir Support Block	Vendor	2.78	10.2	HHDT,MHDT
RCC Weir Support Block	Hauling	0.00	20.0	HHDT
RCC Weir Support Block	Onsite truck	—	—	HHDT

Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	—	—	—	—
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Worker	7.11	18.5	LDA,LDT1,LDT2
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Vendor	2.78	10.2	HHDT,MHDT
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Hauling	0.00	20.0	HHDT
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Onsite truck	—	—	HHDT
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	—	—	—	—
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Worker	7.11	18.5	LDA,LDT1,LDT2
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Vendor	2.78	10.2	HHDT,MHDT
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Hauling	0.00	20.0	HHDT
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Onsite truck	—	—	HHDT
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	—	—	—	—
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2

Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Vendor	2.78	10.2	HHDT,MHDT
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Hauling	0.00	20.0	HHDT
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	—	—	—	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	—	—	—	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	—	—	—	—

Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	—	—	—	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	—	—	—	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Hauling	0.00	20.0	HHDT

Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	—	—	—	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	—	—	—	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	—	—	—	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Vendor	2.78	10.2	HHDT,MHDT

Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	—	—	—	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	—	—	—	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Onsite truck	—	—	HHDT
Wall Transitions: Left Secant Pile Walls	—	—	—	—

Wall Transitions: Left Secant Pile Walls	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Transitions: Left Secant Pile Walls	Vendor	2.78	10.2	HHDT,MHDT
Wall Transitions: Left Secant Pile Walls	Hauling	0.00	20.0	HHDT
Wall Transitions: Left Secant Pile Walls	Onsite truck	—	—	HHDT
Wall Transitions: Right Secant Pile Wall	—	—	—	—
Wall Transitions: Right Secant Pile Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Transitions: Right Secant Pile Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Transitions: Right Secant Pile Wall	Hauling	0.00	20.0	HHDT
Wall Transitions: Right Secant Pile Wall	Onsite truck	—	—	HHDT
Right Closure Wall: Work Platform Construction	—	—	—	—
Right Closure Wall: Work Platform Construction	Worker	7.11	18.5	LDA,LDT1,LDT2
Right Closure Wall: Work Platform Construction	Vendor	2.78	10.2	HHDT,MHDT
Right Closure Wall: Work Platform Construction	Hauling	0.00	20.0	HHDT
Right Closure Wall: Work Platform Construction	Onsite truck	—	—	HHDT
Right Closure Wall: Secant Pile Wall	—	—	—	—
Right Closure Wall: Secant Pile Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Right Closure Wall: Secant Pile Wall	Vendor	2.78	10.2	HHDT,MHDT
Right Closure Wall: Secant Pile Wall	Hauling	0.00	20.0	HHDT
Right Closure Wall: Secant Pile Wall	Onsite truck	—	—	HHDT
Right Closure Wall: Backfill Concrete	—	—	—	—

Right Closure Wall: Backfill Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Right Closure Wall: Backfill Concrete	Vendor	2.78	10.2	HHDT,MHDT
Right Closure Wall: Backfill Concrete	Hauling	0.00	20.0	HHDT
Right Closure Wall: Backfill Concrete	Onsite truck	—	—	HHDT
Wall Type 2 - Left: Leveling Concrete	—	—	—	—
Wall Type 2 - Left: Leveling Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: Leveling Concrete	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: Leveling Concrete	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: Leveling Concrete	Onsite truck	—	—	HHDT
Wall Type 2 - Left: 1 Inch Concrete Wall	—	—	—	—
Wall Type 2 - Left: 1 Inch Concrete Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: 1 Inch Concrete Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: 1 Inch Concrete Wall	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: 1 Inch Concrete Wall	Onsite truck	—	—	HHDT
Wall Type 2 - Left: 2.5 Inch Concrete Wall	—	—	—	—
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Onsite truck	—	—	HHDT
Wall Type 2 - Left: Concrete Footing	—	—	—	—
Wall Type 2 - Left: Concrete Footing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: Concrete Footing	Vendor	2.78	10.2	HHDT,MHDT

Wall Type 2 - Left: Concrete Footing	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: Concrete Footing	Onsite truck	—	—	HHDT
Wall Type 2 - Left: Backfill	—	—	—	—
Wall Type 2 - Left: Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: Backfill	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: Backfill	Onsite truck	—	—	HHDT
Wall Type 2 - Left: Reinforced Concrete Wall	—	—	—	—
Wall Type 2 - Left: Reinforced Concrete Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: Reinforced Concrete Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: Reinforced Concrete Wall	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: Reinforced Concrete Wall	Onsite truck	—	—	HHDT
Wall Type 2 - Left: Footing Rock Anchors and Backfill	—	—	—	—
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Onsite truck	—	—	HHDT
Wall Type 2 - Wall Right: Leveling Concrete	—	—	—	—
Wall Type 2 - Wall Right: Leveling Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Wall Right: Leveling Concrete	Vendor	2.78	10.2	HHDT,MHDT

Wall Type 2 - Wall Right: Leveling Concrete	Hauling	0.00	20.0	HHDT
Wall Type 2 - Wall Right: Leveling Concrete	Onsite truck	—	—	HHDT
Wall Type 2 - Wall Right: 1 Inch Wall	—	—	—	—
Wall Type 2 - Wall Right: 1 Inch Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Wall Right: 1 Inch Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Wall Right: 1 Inch Wall	Hauling	0.00	20.0	HHDT
Wall Type 2 - Wall Right: 1 Inch Wall	Onsite truck	—	—	HHDT
Wall Type 2 - Wall Right: 2.5 Inch Wall	—	—	—	—
Wall Type 2 - Wall Right: 2.5 Inch Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Wall Right: 2.5 Inch Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Wall Right: 2.5 Inch Wall	Hauling	0.00	20.0	HHDT
Wall Type 2 - Wall Right: 2.5 Inch Wall	Onsite truck	—	—	HHDT
Wall Type 2 - Wall Right: Concrete Footing	—	—	—	—
Wall Type 2 - Wall Right: Concrete Footing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Wall Right: Concrete Footing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Wall Right: Concrete Footing	Hauling	0.00	20.0	HHDT
Wall Type 2 - Wall Right: Concrete Footing	Onsite truck	—	—	HHDT
Wall Type 2 - Wall Right: Backfill	—	—	—	—
Wall Type 2 - Wall Right: Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Wall Right: Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Wall Right: Backfill	Hauling	31.0	12.1	HHDT

Wall Type 2 - Wall Right: Backfill	Onsite truck	—	—	HHDT
Wall Type 3 - Left: Roller Compacted Concrete	—	—	—	—
Wall Type 3 - Left: Roller Compacted Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 3 - Left: Roller Compacted Concrete	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 3 - Left: Roller Compacted Concrete	Hauling	0.00	20.0	HHDT
Wall Type 3 - Left: Roller Compacted Concrete	Onsite truck	—	—	HHDT
Wall Type 3 - Left: CVC Facing	—	—	—	—
Wall Type 3 - Left: CVC Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 3 - Left: CVC Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 3 - Left: CVC Facing	Hauling	0.00	20.0	HHDT
Wall Type 3 - Left: CVC Facing	Onsite truck	—	—	HHDT
Wall Type 3 - Right: Roller Compacted Concrete	—	—	—	—
Wall Type 3 - Right: Roller Compacted Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 3 - Right: Roller Compacted Concrete	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 3 - Right: Roller Compacted Concrete	Hauling	0.00	20.0	HHDT
Wall Type 3 - Right: Roller Compacted Concrete	Onsite truck	—	—	HHDT
Wall Type 3 - Right: CVC Facing	—	—	—	—
Wall Type 3 - Right: CVC Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 3 - Right: CVC Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 3 - Right: CVC Facing	Hauling	0.00	20.0	HHDT
Wall Type 3 - Right: CVC Facing	Onsite truck	—	—	HHDT
Wall Type 3 - Right: Backfill	—	—	—	—

Wall Type 3 - Right: Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 3 - Right: Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 3 - Right: Backfill	Hauling	0.00	20.0	HHDT
Wall Type 3 - Right: Backfill	Onsite truck	—	—	HHDT
Stilling Basin: RCC	—	—	—	—
Stilling Basin: RCC	Worker	7.11	18.5	LDA,LDT1,LDT2
Stilling Basin: RCC	Vendor	2.78	10.2	HHDT,MHDT
Stilling Basin: RCC	Hauling	0.00	20.0	HHDT
Stilling Basin: RCC	Onsite truck	—	—	HHDT
Stilling Basin: Upstream/Downstream CVC Facing	—	—	—	—
Stilling Basin: Upstream/Downstream CVC Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Stilling Basin: Upstream/Downstream CVC Facing	Vendor	2.78	10.2	HHDT,MHDT
Stilling Basin: Upstream/Downstream CVC Facing	Hauling	0.00	20.0	HHDT
Stilling Basin: Upstream/Downstream CVC Facing	Onsite truck	—	—	HHDT
Stilling Basin: Basin Steps	—	—	—	—
Stilling Basin: Basin Steps	Worker	7.11	18.5	LDA,LDT1,LDT2
Stilling Basin: Basin Steps	Vendor	2.78	10.2	HHDT,MHDT
Stilling Basin: Basin Steps	Hauling	0.00	20.0	HHDT
Stilling Basin: Basin Steps	Onsite truck	—	—	HHDT
Stilling Basin: Chute Blocks	—	—	—	—
Stilling Basin: Chute Blocks	Worker	7.11	18.5	LDA,LDT1,LDT2
Stilling Basin: Chute Blocks	Vendor	2.78	10.2	HHDT,MHDT
Stilling Basin: Chute Blocks	Hauling	0.00	20.0	HHDT
Stilling Basin: Chute Blocks	Onsite truck	—	—	HHDT
Stilling Basin: Dentated Sill	—	—	—	—

Stilling Basin: Dentated Sill	Worker	7.11	18.5	LDA,LDT1,LDT2
Stilling Basin: Dentated Sill	Vendor	2.78	10.2	HHDT,MHDT
Stilling Basin: Dentated Sill	Hauling	0.00	20.0	HHDT
Stilling Basin: Dentated Sill	Onsite truck	—	—	HHDT
Spillway Slab Construction: RCC Foundation Support Block	—	—	—	—
Spillway Slab Construction: RCC Foundation Support Block	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Slab Construction: RCC Foundation Support Block	Vendor	2.78	10.2	HHDT,MHDT
Spillway Slab Construction: RCC Foundation Support Block	Hauling	0.00	20.0	HHDT
Spillway Slab Construction: RCC Foundation Support Block	Onsite truck	—	—	HHDT
Spillway Slab Construction: Spillway Chute Slab	—	—	—	—
Spillway Slab Construction: Spillway Chute Slab	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Slab Construction: Spillway Chute Slab	Vendor	2.78	10.2	HHDT,MHDT
Spillway Slab Construction: Spillway Chute Slab	Hauling	0.00	20.0	HHDT
Spillway Slab Construction: Spillway Chute Slab	Onsite truck	—	—	HHDT
Spillway Slab Construction: Stilling Basin Slab	—	—	—	—
Spillway Slab Construction: Stilling Basin Slab	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Slab Construction: Stilling Basin Slab	Vendor	2.78	10.2	HHDT,MHDT
Spillway Slab Construction: Stilling Basin Slab	Hauling	0.00	20.0	HHDT
Spillway Slab Construction: Stilling Basin Slab	Onsite truck	—	—	HHDT

Spillway Slab Construction: Zone B	—	—	—	—
Spillway Slab Construction: Zone B	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Slab Construction: Zone B	Vendor	2.78	10.2	HHDT,MHDT
Spillway Slab Construction: Zone B	Hauling	0.00	20.0	HHDT
Spillway Slab Construction: Zone B	Onsite truck	—	—	HHDT
Spillway Slab Construction: Zone C	—	—	—	—
Spillway Slab Construction: Zone C	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Slab Construction: Zone C	Vendor	2.78	10.2	HHDT,MHDT
Spillway Slab Construction: Zone C	Hauling	0.00	20.0	HHDT
Spillway Slab Construction: Zone C	Onsite truck	—	—	HHDT
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	—	—	—	—
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Vendor	2.78	10.2	HHDT,MHDT
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Hauling	0.00	20.0	HHDT
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Onsite truck	—	—	HHDT
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	—	—	—	—
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Vendor	2.78	10.2	HHDT,MHDT
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Hauling	0.00	20.0	HHDT
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Onsite truck	—	—	HHDT
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	—	—	—	—

Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Vendor	2.78	10.2	HHDT,MHDT
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Hauling	0.00	20.0	HHDT
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Onsite truck	—	—	HHDT
Spillway Drains and Cleanouts: Drain Gravel	—	—	—	—
Spillway Drains and Cleanouts: Drain Gravel	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Drains and Cleanouts: Drain Gravel	Vendor	2.78	10.2	HHDT,MHDT
Spillway Drains and Cleanouts: Drain Gravel	Hauling	0.00	20.0	HHDT
Spillway Drains and Cleanouts: Drain Gravel	Onsite truck	—	—	HHDT
Spillway Drains and Cleanouts: Filter Sand	—	—	—	—
Spillway Drains and Cleanouts: Filter Sand	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Drains and Cleanouts: Filter Sand	Vendor	2.78	10.2	HHDT,MHDT
Spillway Drains and Cleanouts: Filter Sand	Hauling	0.00	20.0	HHDT
Spillway Drains and Cleanouts: Filter Sand	Onsite truck	—	—	HHDT
Surface Ditch from Landfill: Excavation	—	—	—	—
Surface Ditch from Landfill: Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Surface Ditch from Landfill: Excavation	Vendor	2.78	10.2	HHDT,MHDT

Surface Ditch from Landfill: Excavation	Hauling	0.00	20.0	HHDT
Surface Ditch from Landfill: Excavation	Onsite truck	—	—	HHDT
Surface Ditch from Landfill: Drop Structures	—	—	—	—
Surface Ditch from Landfill: Drop Structures	Worker	7.11	18.5	LDA,LDT1,LDT2
Surface Ditch from Landfill: Drop Structures	Vendor	2.78	10.2	HHDT,MHDT
Surface Ditch from Landfill: Drop Structures	Hauling	0.00	20.0	HHDT
Surface Ditch from Landfill: Drop Structures	Onsite truck	—	—	HHDT
Surface Ditch from Landfill: Ditch Lining	—	—	—	—
Surface Ditch from Landfill: Ditch Lining	Worker	7.11	18.5	LDA,LDT1,LDT2
Surface Ditch from Landfill: Ditch Lining	Vendor	2.78	10.2	HHDT,MHDT
Surface Ditch from Landfill: Ditch Lining	Hauling	0.00	20.0	HHDT
Surface Ditch from Landfill: Ditch Lining	Onsite truck	—	—	HHDT
Downstream Apron: Concrete Apron	—	—	—	—
Downstream Apron: Concrete Apron	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Apron: Concrete Apron	Vendor	2.78	10.2	HHDT,MHDT
Downstream Apron: Concrete Apron	Hauling	0.00	20.0	HHDT
Downstream Apron: Concrete Apron	Onsite truck	—	—	HHDT
Downstream Apron: Zone C	—	—	—	—
Downstream Apron: Zone C	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Apron: Zone C	Vendor	2.78	10.2	HHDT,MHDT
Downstream Apron: Zone C	Hauling	0.00	20.0	HHDT

Downstream Apron: Zone C	Onsite truck	—	—	HHDT
Downstream Apron: Riprap Apron	—	—	—	—
Downstream Apron: Riprap Apron	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Apron: Riprap Apron	Vendor	2.78	10.2	HHDT,MHDT
Downstream Apron: Riprap Apron	Hauling	59.0	12.1	HHDT
Downstream Apron: Riprap Apron	Onsite truck	—	—	HHDT
Downstream Apron: Riprap Bedding	—	—	—	—
Downstream Apron: Riprap Bedding	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Apron: Riprap Bedding	Vendor	2.78	10.2	HHDT,MHDT
Downstream Apron: Riprap Bedding	Hauling	76.7	20.0	HHDT
Downstream Apron: Riprap Bedding	Onsite truck	—	—	HHDT
Furnish and Install Electrical / Controls and Instrumentation	—	—	—	—
Furnish and Install Electrical / Controls and Instrumentation	Worker	7.11	18.5	LDA,LDT1,LDT2
Furnish and Install Electrical / Controls and Instrumentation	Vendor	2.78	10.2	HHDT,MHDT
Furnish and Install Electrical / Controls and Instrumentation	Hauling	34.0	12.1	HHDT
Furnish and Install Electrical / Controls and Instrumentation	Onsite truck	—	—	HHDT
Furnish and Install Aeration System	—	—	—	—
Furnish and Install Aeration System	Worker	7.11	18.5	LDA,LDT1,LDT2
Furnish and Install Aeration System	Vendor	2.78	10.2	HHDT,MHDT
Furnish and Install Aeration System	Hauling	0.00	20.0	HHDT
Furnish and Install Aeration System	Onsite truck	—	—	HHDT
Part 1 Furnish and Install Erosion Control Measures	—	—	—	—
Part 1 Furnish and Install Erosion Control Measures	Worker	7.11	18.5	LDA,LDT1,LDT2

Part 1 Furnish and Install Erosion Control Measures	Vendor	2.78	10.2	HHDT,MHDT
Part 1 Furnish and Install Erosion Control Measures	Hauling	0.00	20.0	HHDT
Part 1 Furnish and Install Erosion Control Measures	Onsite truck	—	—	HHDT
Part 2 Furnish and Install Erosion Control Measures	—	—	—	—
Part 2 Furnish and Install Erosion Control Measures	Worker	7.11	18.5	LDA,LDT1,LDT2
Part 2 Furnish and Install Erosion Control Measures	Vendor	2.78	10.2	HHDT,MHDT
Part 2 Furnish and Install Erosion Control Measures	Hauling	0.00	20.0	HHDT
Part 2 Furnish and Install Erosion Control Measures	Onsite truck	—	—	HHDT
Part 3 Furnish and Install Erosion Control Measures	—	—	—	—
Part 3 Furnish and Install Erosion Control Measures	Worker	7.11	18.5	LDA,LDT1,LDT2
Part 3 Furnish and Install Erosion Control Measures	Vendor	2.78	10.2	HHDT,MHDT
Part 3 Furnish and Install Erosion Control Measures	Hauling	0.00	20.0	HHDT
Part 3 Furnish and Install Erosion Control Measures	Onsite truck	—	—	HHDT
Embankment Mitigation	—	—	—	—
Embankment Mitigation	Worker	42.5	18.5	LDA,LDT1,LDT2
Embankment Mitigation	Vendor	—	10.2	HHDT,MHDT
Embankment Mitigation	Hauling	42.9	20.0	HHDT
Embankment Mitigation	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Part 1 Site Demolition (Excludes Spillway)	—	—	—	—
Part 1 Site Demolition (Excludes Spillway)	Worker	5.00	18.5	LDA,LDT1,LDT2
Part 1 Site Demolition (Excludes Spillway)	Vendor	—	10.2	HHDT,MHDT
Part 1 Site Demolition (Excludes Spillway)	Hauling	0.00	20.0	HHDT
Part 1 Site Demolition (Excludes Spillway)	Onsite truck	—	—	HHDT
Part 2 Site Demolition (Excludes Spillway)	—	—	—	—
Part 2 Site Demolition (Excludes Spillway)	Worker	5.00	18.5	LDA,LDT1,LDT2
Part 2 Site Demolition (Excludes Spillway)	Vendor	—	10.2	HHDT,MHDT
Part 2 Site Demolition (Excludes Spillway)	Hauling	0.00	20.0	HHDT
Part 2 Site Demolition (Excludes Spillway)	Onsite truck	—	—	HHDT
Spillway Demolition: Existing Spillway Demo	—	—	—	—
Spillway Demolition: Existing Spillway Demo	Worker	35.0	18.5	LDA,LDT1,LDT2
Spillway Demolition: Existing Spillway Demo	Vendor	—	10.2	HHDT,MHDT
Spillway Demolition: Existing Spillway Demo	Hauling	24.0	12.1	HHDT
Spillway Demolition: Existing Spillway Demo	Onsite truck	—	—	HHDT
Spillway Demolition: Crush Concrete Demo	—	—	—	—
Spillway Demolition: Crush Concrete Demo	Worker	12.5	18.5	LDA,LDT1,LDT2

Spillway Demolition: Crush Concrete Demo	Vendor	—	10.2	HHDT,MHDT
Spillway Demolition: Crush Concrete Demo	Hauling	0.00	20.0	HHDT
Spillway Demolition: Crush Concrete Demo	Onsite truck	—	—	HHDT
Spillway Demolition: Bridge Pier and Facing Demo	—	—	—	—
Spillway Demolition: Bridge Pier and Facing Demo	Worker	35.0	18.5	LDA,LDT1,LDT2
Spillway Demolition: Bridge Pier and Facing Demo	Vendor	—	10.2	HHDT,MHDT
Spillway Demolition: Bridge Pier and Facing Demo	Hauling	0.00	20.0	HHDT
Spillway Demolition: Bridge Pier and Facing Demo	Onsite truck	—	—	HHDT
Temporary Flood Control Berm	—	—	—	—
Temporary Flood Control Berm	Worker	17.5	18.5	LDA,LDT1,LDT2
Temporary Flood Control Berm	Vendor	—	10.2	HHDT,MHDT
Temporary Flood Control Berm	Hauling	0.00	20.0	HHDT
Temporary Flood Control Berm	Onsite truck	—	—	HHDT
Mobilization	—	—	—	—
Mobilization	Worker	22.5	18.5	LDA,LDT1,LDT2
Mobilization	Vendor	—	10.2	HHDT,MHDT
Mobilization	Hauling	14.0	12.1	HHDT
Mobilization	Onsite truck	—	—	HHDT
Demobilization	—	—	—	—
Demobilization	Worker	22.5	18.5	LDA,LDT1,LDT2
Demobilization	Vendor	—	10.2	HHDT,MHDT
Demobilization	Hauling	12.0	12.1	HHDT
Demobilization	Onsite truck	—	—	HHDT

Cleanup	—	—	—	—
Cleanup	Worker	17.5	18.5	LDA,LDT1,LDT2
Cleanup	Vendor	—	10.2	HHDT,MHDT
Cleanup	Hauling	4.00	12.1	HHDT
Cleanup	Onsite truck	—	—	HHDT
Allowance for Piping Install	—	—	—	—
Allowance for Piping Install	Worker	7.50	18.5	LDA,LDT1,LDT2
Allowance for Piping Install	Vendor	—	10.2	HHDT,MHDT
Allowance for Piping Install	Hauling	0.00	20.0	HHDT
Allowance for Piping Install	Onsite truck	—	—	HHDT
Bypass Pumping Diversion Beam	—	—	—	—
Bypass Pumping Diversion Beam	Worker	2.50	18.5	LDA,LDT1,LDT2
Bypass Pumping Diversion Beam	Vendor	—	10.2	HHDT,MHDT
Bypass Pumping Diversion Beam	Hauling	128	20.0	HHDT
Bypass Pumping Diversion Beam	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Steel Pipe and Appurtenances	—	—	—	—
Inclined Inlet Structure: Steel Pipe and Appurtenances	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Steel Pipe and Appurtenances	Vendor	2.78	10.2	HHDT,MHDT
Inclined Inlet Structure: Steel Pipe and Appurtenances	Hauling	0.00	20.0	HHDT
Inclined Inlet Structure: Steel Pipe and Appurtenances	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Reinforced Concrete	—	—	—	—
Inclined Inlet Structure: Reinforced Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Reinforced Concrete	Vendor	2.78	10.2	HHDT,MHDT

Inclined Inlet Structure: Reinforced Concrete	Hauling	83.0	12.1	HHDT
Inclined Inlet Structure: Reinforced Concrete	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Drilled Foundation Anchors	—	—	—	—
Inclined Inlet Structure: Drilled Foundation Anchors	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Drilled Foundation Anchors	Vendor	2.78	10.2	HHDT,MHDT
Inclined Inlet Structure: Drilled Foundation Anchors	Hauling	0.00	20.0	HHDT
Inclined Inlet Structure: Drilled Foundation Anchors	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Excavation	—	—	—	—
Inclined Inlet Structure: Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Excavation	Vendor	2.78	10.2	HHDT,MHDT
Inclined Inlet Structure: Excavation	Hauling	0.00	20.0	HHDT
Inclined Inlet Structure: Excavation	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Stainless Steel Platform	—	—	—	—
Inclined Inlet Structure: Stainless Steel Platform	Worker	7.11	18.5	LDA,LDT1,LDT2
Inclined Inlet Structure: Stainless Steel Platform	Vendor	2.78	10.2	HHDT,MHDT
Inclined Inlet Structure: Stainless Steel Platform	Hauling	0.00	20.0	HHDT
Inclined Inlet Structure: Stainless Steel Platform	Onsite truck	—	—	HHDT
Inclined Inlet Structure: Pneumatic Actuation Control System	—	—	—	—
Inclined Inlet Structure: Pneumatic Actuation Control System	Worker	7.11	18.5	LDA,LDT1,LDT2

Inclined Inlet Structure: Pneumatic Actuation Control System	Vendor	2.78	10.2	HHDT,MHDT
Inclined Inlet Structure: Pneumatic Actuation Control System	Hauling	0.00	20.0	HHDT
Inclined Inlet Structure: Pneumatic Actuation Control System	Onsite truck	—	—	HHDT
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	—	—	—	—
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Worker	7.11	18.5	LDA,LDT1,LDT2
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Vendor	2.78	10.2	HHDT,MHDT
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Hauling	0.00	20.0	HHDT
Cofferdam Installation and Removal: Install Cofferdam H/King Piles	Onsite truck	—	—	HHDT
Cofferdam Installation and Removal: Dewatering	—	—	—	—
Cofferdam Installation and Removal: Dewatering	Worker	7.11	18.5	LDA,LDT1,LDT2
Cofferdam Installation and Removal: Dewatering	Vendor	2.78	10.2	HHDT,MHDT
Cofferdam Installation and Removal: Dewatering	Hauling	0.00	20.0	HHDT
Cofferdam Installation and Removal: Dewatering	Onsite truck	—	—	HHDT
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	—	—	—	—
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Worker	7.11	18.5	LDA,LDT1,LDT2
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Vendor	2.78	10.2	HHDT,MHDT
Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Hauling	0.00	20.0	HHDT

Cofferdam Installation and Removal: Remove Cofferdam H/King Piles	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Hauling	0.00	20.0	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: Roadway Excavation	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Hauling	0.00	20.0	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: Imported Fill & CMB Surface Course	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Worker	7.11	18.5	LDA,LDT1,LDT2

Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Hauling	0.00	20.0	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: CMB Surface Course	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Hauling	0.00	20.0	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: MSE Retaining Wall	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Hauling	0.00	20.0	HHDT

Access Road, Crest Ramp, and Existing Crest Widening: Metal Beam Guard Rail	Onsite truck	—	—	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	—	—	—	—
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Vendor	2.78	10.2	HHDT,MHDT
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Hauling	0.00	20.0	HHDT
Access Road, Crest Ramp, and Existing Crest Widening: 1.5' Conc Parapet Wall	Onsite truck	—	—	HHDT
Dam Control Building: Pt 1 CMU Control Building	—	—	—	—
Dam Control Building: Pt 1 CMU Control Building	Worker	7.11	18.5	LDA,LDT1,LDT2
Dam Control Building: Pt 1 CMU Control Building	Vendor	2.78	10.2	HHDT,MHDT
Dam Control Building: Pt 1 CMU Control Building	Hauling	7.84	20.0	HHDT
Dam Control Building: Pt 1 CMU Control Building	Onsite truck	—	—	HHDT
Dam Control Building: Pt 2 CMU Control Building	—	—	—	—
Dam Control Building: Pt 2 CMU Control Building	Worker	7.11	18.5	LDA,LDT1,LDT2
Dam Control Building: Pt 2 CMU Control Building	Vendor	2.78	10.2	HHDT,MHDT
Dam Control Building: Pt 2 CMU Control Building	Hauling	0.00	20.0	HHDT

Dam Control Building: Pt 2 CMU Control Building	Onsite truck	—	—	HHDT
Dam Control Building: Reinforced Concrete Foundation	—	—	—	—
Dam Control Building: Reinforced Concrete Foundation	Worker	7.11	18.5	LDA,LDT1,LDT2
Dam Control Building: Reinforced Concrete Foundation	Vendor	2.78	10.2	HHDT,MHDT
Dam Control Building: Reinforced Concrete Foundation	Hauling	0.00	20.0	HHDT
Dam Control Building: Reinforced Concrete Foundation	Onsite truck	—	—	HHDT
Dam Control Building: Metal Frame Roofing	—	—	—	—
Dam Control Building: Metal Frame Roofing	Worker	7.11	18.5	LDA,LDT1,LDT2
Dam Control Building: Metal Frame Roofing	Vendor	2.78	10.2	HHDT,MHDT
Dam Control Building: Metal Frame Roofing	Hauling	0.00	20.0	HHDT
Dam Control Building: Metal Frame Roofing	Onsite truck	—	—	HHDT
Dam Control Building: Ancillary Features	—	—	—	—
Dam Control Building: Ancillary Features	Worker	7.11	18.5	LDA,LDT1,LDT2
Dam Control Building: Ancillary Features	Vendor	2.78	10.2	HHDT,MHDT
Dam Control Building: Ancillary Features	Hauling	9.00	12.1	HHDT
Dam Control Building: Ancillary Features	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	—	—	—	—

Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Structure Excavation Shoring & Excavation	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Structure Bkfl	—	—	—	—
Downstream Outlet Works Piping and Vault: Structure Bkfl	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Structure Bkfl	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Structure Bkfl	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Structure Bkfl	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	—	—	—	—
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Reinforced Conc Structures	Onsite truck	—	—	HHDT

Downstream Outlet Works Piping and Vault: Piping and Valves	—	—	—	—
Downstream Outlet Works Piping and Vault: Piping and Valves	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Piping and Valves	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Piping and Valves	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Piping and Valves	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Steel Casing	—	—	—	—
Downstream Outlet Works Piping and Vault: Steel Casing	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Steel Casing	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Steel Casing	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Steel Casing	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Ladders and Platforms	—	—	—	—
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Ladders and Platforms	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	—	—	—	—

Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Dam keeper Residence Water Supply System and Piping	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: Dewatering	—	—	—	—
Downstream Outlet Works Piping and Vault: Dewatering	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: Dewatering	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: Dewatering	Hauling	0.00	20.0	HHDT
Downstream Outlet Works Piping and Vault: Dewatering	Onsite truck	—	—	HHDT
Downstream Outlet Works Piping and Vault: ARVs and Valves	—	—	—	—
Downstream Outlet Works Piping and Vault: ARVs and Valves	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Outlet Works Piping and Vault: ARVs and Valves	Vendor	2.78	10.2	HHDT,MHDT
Downstream Outlet Works Piping and Vault: ARVs and Valves	Hauling	88.0	12.1	HHDT
Downstream Outlet Works Piping and Vault: ARVs and Valves	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	—	—	—	—

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Hauling	0.00	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Structure Excavation	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	—	—	—	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Hauling	0.00	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Concrete Walkway	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	—	—	—	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Hauling	0.00	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Bridge	Onsite truck	—	—	HHDT

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	—	—	—	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Hauling	17.0	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	—	—	—	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Worker	7.11	18.5	LDA,LDT1,LDT2
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Hauling	0.00	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Slope Anchors	Onsite truck	—	—	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	—	—	—	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Worker	7.11	18.5	LDA,LDT1,LDT2

Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Vendor	2.78	10.2	HHDT,MHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Hauling	0.00	20.0	HHDT
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Tie Back Wall	Onsite truck	—	—	HHDT
Spillway Site Excavations	—	—	—	—
Spillway Site Excavations	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Site Excavations	Vendor	2.78	10.2	HHDT,MHDT
Spillway Site Excavations	Hauling	18.0	12.1	HHDT
Spillway Site Excavations	Onsite truck	—	—	HHDT
Rock Slope Stabilization	—	—	—	—
Rock Slope Stabilization	Worker	7.11	18.5	LDA,LDT1,LDT2
Rock Slope Stabilization	Vendor	2.78	10.2	HHDT,MHDT
Rock Slope Stabilization	Hauling	0.00	20.0	HHDT
Rock Slope Stabilization	Onsite truck	—	—	HHDT
RCC Weir Support Block	—	—	—	—
RCC Weir Support Block	Worker	7.11	18.5	LDA,LDT1,LDT2
RCC Weir Support Block	Vendor	2.78	10.2	HHDT,MHDT
RCC Weir Support Block	Hauling	0.00	20.0	HHDT
RCC Weir Support Block	Onsite truck	—	—	HHDT
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	—	—	—	—
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Worker	7.11	18.5	LDA,LDT1,LDT2
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Vendor	2.78	10.2	HHDT,MHDT

Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Hauling	0.00	20.0	HHDT
Side Channel Control Structure (Zone A): Ogee Weir RCC 7 days per week	Onsite truck	—	—	HHDT
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	—	—	—	—
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Worker	7.11	18.5	LDA,LDT1,LDT2
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Vendor	2.78	10.2	HHDT,MHDT
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Hauling	0.00	20.0	HHDT
Side Channel Control Structure (Zone A): Ogee Weir concrete Overlay - CVC	Onsite truck	—	—	HHDT
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	—	—	—	—
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Vendor	2.78	10.2	HHDT,MHDT
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Hauling	0.00	20.0	HHDT
Side Channel Control Structure (Zone A): Side Channel Reinforced Concrete	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	—	—	—	—

Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): CLSM Backfill	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	—	—	—	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17)\: Work Platform Construction	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	—	—	—	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Temp Shotcrete Facing	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	—	—	—	—

Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Permanent Reinforced Concrete Facing	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	—	—	—	—
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Left (0+27 to 2+17): Post Tensioned Rock Anchors	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	—	—	—	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): CLSM Backfill	Onsite truck	—	—	HHDT

Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	—	—	—	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17) Work Platform Construction	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	—	—	—	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Temp Shotcrete Facing	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	—	—	—	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Worker	7.11	18.5	LDA,LDT1,LDT2

Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Permanent Reinforced Concrete Facing	Onsite truck	—	—	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	—	—	—	—
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Hauling	0.00	20.0	HHDT
Wall Type 1 Tieback Wall Right (0+27 to 2+17): Post Tensioned Rock Anchors	Onsite truck	—	—	HHDT
Wall Transitions: Left Secant Pile Walls	—	—	—	—
Wall Transitions: Left Secant Pile Walls	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Transitions: Left Secant Pile Walls	Vendor	2.78	10.2	HHDT,MHDT
Wall Transitions: Left Secant Pile Walls	Hauling	0.00	20.0	HHDT
Wall Transitions: Left Secant Pile Walls	Onsite truck	—	—	HHDT
Wall Transitions: Right Secant Pile Wall	—	—	—	—

Wall Transitions: Right Secant Pile Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Transitions: Right Secant Pile Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Transitions: Right Secant Pile Wall	Hauling	0.00	20.0	HHDT
Wall Transitions: Right Secant Pile Wall	Onsite truck	—	—	HHDT
Right Closure Wall: Work Platform Construction	—	—	—	—
Right Closure Wall: Work Platform Construction	Worker	7.11	18.5	LDA,LDT1,LDT2
Right Closure Wall: Work Platform Construction	Vendor	2.78	10.2	HHDT,MHDT
Right Closure Wall: Work Platform Construction	Hauling	0.00	20.0	HHDT
Right Closure Wall: Work Platform Construction	Onsite truck	—	—	HHDT
Right Closure Wall: Secant Pile Wall	—	—	—	—
Right Closure Wall: Secant Pile Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Right Closure Wall: Secant Pile Wall	Vendor	2.78	10.2	HHDT,MHDT
Right Closure Wall: Secant Pile Wall	Hauling	0.00	20.0	HHDT
Right Closure Wall: Secant Pile Wall	Onsite truck	—	—	HHDT
Right Closure Wall: Backfill Concrete	—	—	—	—
Right Closure Wall: Backfill Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Right Closure Wall: Backfill Concrete	Vendor	2.78	10.2	HHDT,MHDT
Right Closure Wall: Backfill Concrete	Hauling	0.00	20.0	HHDT
Right Closure Wall: Backfill Concrete	Onsite truck	—	—	HHDT
Wall Type 2 - Left: Leveling Concrete	—	—	—	—
Wall Type 2 - Left: Leveling Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: Leveling Concrete	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: Leveling Concrete	Hauling	0.00	20.0	HHDT

Wall Type 2 - Left: Leveling Concrete	Onsite truck	—	—	HHDT
Wall Type 2 - Left: 1 Inch Concrete Wall	—	—	—	—
Wall Type 2 - Left: 1 Inch Concrete Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: 1 Inch Concrete Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: 1 Inch Concrete Wall	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: 1 Inch Concrete Wall	Onsite truck	—	—	HHDT
Wall Type 2 - Left: 2.5 Inch Concrete Wall	—	—	—	—
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: 2.5 Inch Concrete Wall	Onsite truck	—	—	HHDT
Wall Type 2 - Left: Concrete Footing	—	—	—	—
Wall Type 2 - Left: Concrete Footing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: Concrete Footing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: Concrete Footing	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: Concrete Footing	Onsite truck	—	—	HHDT
Wall Type 2 - Left: Backfill	—	—	—	—
Wall Type 2 - Left: Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: Backfill	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: Backfill	Onsite truck	—	—	HHDT

Wall Type 2 - Left: Reinforced Concrete Wall	—	—	—	—
Wall Type 2 - Left: Reinforced Concrete Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: Reinforced Concrete Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: Reinforced Concrete Wall	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: Reinforced Concrete Wall	Onsite truck	—	—	HHDT
Wall Type 2 - Left: Footing Rock Anchors and Backfill	—	—	—	—
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Hauling	0.00	20.0	HHDT
Wall Type 2 - Left: Footing Rock Anchors and Backfill	Onsite truck	—	—	HHDT
Wall Type 2 - Wall Right: Leveling Concrete	—	—	—	—
Wall Type 2 - Wall Right: Leveling Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Wall Right: Leveling Concrete	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Wall Right: Leveling Concrete	Hauling	0.00	20.0	HHDT
Wall Type 2 - Wall Right: Leveling Concrete	Onsite truck	—	—	HHDT
Wall Type 2 - Wall Right: 1 Inch Wall	—	—	—	—
Wall Type 2 - Wall Right: 1 Inch Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Wall Right: 1 Inch Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Wall Right: 1 Inch Wall	Hauling	0.00	20.0	HHDT

Wall Type 2 - Wall Right: 1 Inch Wall	Onsite truck	—	—	HHDT
Wall Type 2 - Wall Right: 2.5 Inch Wall	—	—	—	—
Wall Type 2 - Wall Right: 2.5 Inch Wall	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Wall Right: 2.5 Inch Wall	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Wall Right: 2.5 Inch Wall	Hauling	0.00	20.0	HHDT
Wall Type 2 - Wall Right: 2.5 Inch Wall	Onsite truck	—	—	HHDT
Wall Type 2 - Wall Right: Concrete Footing	—	—	—	—
Wall Type 2 - Wall Right: Concrete Footing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Wall Right: Concrete Footing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Wall Right: Concrete Footing	Hauling	0.00	20.0	HHDT
Wall Type 2 - Wall Right: Concrete Footing	Onsite truck	—	—	HHDT
Wall Type 2 - Wall Right: Backfill	—	—	—	—
Wall Type 2 - Wall Right: Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 2 - Wall Right: Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 2 - Wall Right: Backfill	Hauling	31.0	12.1	HHDT
Wall Type 2 - Wall Right: Backfill	Onsite truck	—	—	HHDT
Wall Type 3 - Left: Roller Compacted Concrete	—	—	—	—
Wall Type 3 - Left: Roller Compacted Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 3 - Left: Roller Compacted Concrete	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 3 - Left: Roller Compacted Concrete	Hauling	0.00	20.0	HHDT

Wall Type 3 - Left: Roller Compacted Concrete	Onsite truck	—	—	HHDT
Wall Type 3 - Left: CVC Facing	—	—	—	—
Wall Type 3 - Left: CVC Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 3 - Left: CVC Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 3 - Left: CVC Facing	Hauling	0.00	20.0	HHDT
Wall Type 3 - Left: CVC Facing	Onsite truck	—	—	HHDT
Wall Type 3 - Right: Roller Compacted Concrete	—	—	—	—
Wall Type 3 - Right: Roller Compacted Concrete	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 3 - Right: Roller Compacted Concrete	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 3 - Right: Roller Compacted Concrete	Hauling	0.00	20.0	HHDT
Wall Type 3 - Right: Roller Compacted Concrete	Onsite truck	—	—	HHDT
Wall Type 3 - Right: CVC Facing	—	—	—	—
Wall Type 3 - Right: CVC Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 3 - Right: CVC Facing	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 3 - Right: CVC Facing	Hauling	0.00	20.0	HHDT
Wall Type 3 - Right: CVC Facing	Onsite truck	—	—	HHDT
Wall Type 3 - Right: Backfill	—	—	—	—
Wall Type 3 - Right: Backfill	Worker	7.11	18.5	LDA,LDT1,LDT2
Wall Type 3 - Right: Backfill	Vendor	2.78	10.2	HHDT,MHDT
Wall Type 3 - Right: Backfill	Hauling	0.00	20.0	HHDT
Wall Type 3 - Right: Backfill	Onsite truck	—	—	HHDT
Stilling Basin: RCC	—	—	—	—
Stilling Basin: RCC	Worker	7.11	18.5	LDA,LDT1,LDT2
Stilling Basin: RCC	Vendor	2.78	10.2	HHDT,MHDT
Stilling Basin: RCC	Hauling	0.00	20.0	HHDT

Stilling Basin: RCC	Onsite truck	—	—	HHDT
Stilling Basin: Upstream/Downstream CVC Facing	—	—	—	—
Stilling Basin: Upstream/Downstream CVC Facing	Worker	7.11	18.5	LDA,LDT1,LDT2
Stilling Basin: Upstream/Downstream CVC Facing	Vendor	2.78	10.2	HHDT,MHDT
Stilling Basin: Upstream/Downstream CVC Facing	Hauling	0.00	20.0	HHDT
Stilling Basin: Upstream/Downstream CVC Facing	Onsite truck	—	—	HHDT
Stilling Basin: Basin Steps	—	—	—	—
Stilling Basin: Basin Steps	Worker	7.11	18.5	LDA,LDT1,LDT2
Stilling Basin: Basin Steps	Vendor	2.78	10.2	HHDT,MHDT
Stilling Basin: Basin Steps	Hauling	0.00	20.0	HHDT
Stilling Basin: Basin Steps	Onsite truck	—	—	HHDT
Stilling Basin: Chute Blocks	—	—	—	—
Stilling Basin: Chute Blocks	Worker	7.11	18.5	LDA,LDT1,LDT2
Stilling Basin: Chute Blocks	Vendor	2.78	10.2	HHDT,MHDT
Stilling Basin: Chute Blocks	Hauling	0.00	20.0	HHDT
Stilling Basin: Chute Blocks	Onsite truck	—	—	HHDT
Stilling Basin: Dentated Sill	—	—	—	—
Stilling Basin: Dentated Sill	Worker	7.11	18.5	LDA,LDT1,LDT2
Stilling Basin: Dentated Sill	Vendor	2.78	10.2	HHDT,MHDT
Stilling Basin: Dentated Sill	Hauling	0.00	20.0	HHDT
Stilling Basin: Dentated Sill	Onsite truck	—	—	HHDT
Spillway Slab Construction: RCC Foundation Support Block	—	—	—	—
Spillway Slab Construction: RCC Foundation Support Block	Worker	7.11	18.5	LDA,LDT1,LDT2

Spillway Slab Construction: RCC Foundation Support Block	Vendor	2.78	10.2	HHDT,MHDT
Spillway Slab Construction: RCC Foundation Support Block	Hauling	0.00	20.0	HHDT
Spillway Slab Construction: RCC Foundation Support Block	Onsite truck	—	—	HHDT
Spillway Slab Construction: Spillway Chute Slab	—	—	—	—
Spillway Slab Construction: Spillway Chute Slab	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Slab Construction: Spillway Chute Slab	Vendor	2.78	10.2	HHDT,MHDT
Spillway Slab Construction: Spillway Chute Slab	Hauling	0.00	20.0	HHDT
Spillway Slab Construction: Spillway Chute Slab	Onsite truck	—	—	HHDT
Spillway Slab Construction: Stilling Basin Slab	—	—	—	—
Spillway Slab Construction: Stilling Basin Slab	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Slab Construction: Stilling Basin Slab	Vendor	2.78	10.2	HHDT,MHDT
Spillway Slab Construction: Stilling Basin Slab	Hauling	0.00	20.0	HHDT
Spillway Slab Construction: Stilling Basin Slab	Onsite truck	—	—	HHDT
Spillway Slab Construction: Zone B	—	—	—	—
Spillway Slab Construction: Zone B	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Slab Construction: Zone B	Vendor	2.78	10.2	HHDT,MHDT
Spillway Slab Construction: Zone B	Hauling	0.00	20.0	HHDT
Spillway Slab Construction: Zone B	Onsite truck	—	—	HHDT
Spillway Slab Construction: Zone C	—	—	—	—
Spillway Slab Construction: Zone C	Worker	7.11	18.5	LDA,LDT1,LDT2

Spillway Slab Construction: Zone C	Vendor	2.78	10.2	HHDT,MHDT
Spillway Slab Construction: Zone C	Hauling	0.00	20.0	HHDT
Spillway Slab Construction: Zone C	Onsite truck	—	—	HHDT
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	—	—	—	—
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Vendor	2.78	10.2	HHDT,MHDT
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Hauling	0.00	20.0	HHDT
Spillway Drains and Cleanouts: Wall Drains & Cleanouts	Onsite truck	—	—	HHDT
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	—	—	—	—
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Vendor	2.78	10.2	HHDT,MHDT
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Hauling	0.00	20.0	HHDT
Spillway Drains and Cleanouts: Longitudinal Drains & Cleanouts	Onsite truck	—	—	HHDT
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	—	—	—	—
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Vendor	2.78	10.2	HHDT,MHDT
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Hauling	0.00	20.0	HHDT
Spillway Drains and Cleanouts: Transverse Drains & Cleanouts	Onsite truck	—	—	HHDT

Spillway Drains and Cleanouts: Drain Gravel	—	—	—	—
Spillway Drains and Cleanouts: Drain Gravel	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Drains and Cleanouts: Drain Gravel	Vendor	2.78	10.2	HHDT,MHDT
Spillway Drains and Cleanouts: Drain Gravel	Hauling	0.00	20.0	HHDT
Spillway Drains and Cleanouts: Drain Gravel	Onsite truck	—	—	HHDT
Spillway Drains and Cleanouts: Filter Sand	—	—	—	—
Spillway Drains and Cleanouts: Filter Sand	Worker	7.11	18.5	LDA,LDT1,LDT2
Spillway Drains and Cleanouts: Filter Sand	Vendor	2.78	10.2	HHDT,MHDT
Spillway Drains and Cleanouts: Filter Sand	Hauling	0.00	20.0	HHDT
Spillway Drains and Cleanouts: Filter Sand	Onsite truck	—	—	HHDT
Surface Ditch from Landfill: Excavation	—	—	—	—
Surface Ditch from Landfill: Excavation	Worker	7.11	18.5	LDA,LDT1,LDT2
Surface Ditch from Landfill: Excavation	Vendor	2.78	10.2	HHDT,MHDT
Surface Ditch from Landfill: Excavation	Hauling	0.00	20.0	HHDT
Surface Ditch from Landfill: Excavation	Onsite truck	—	—	HHDT
Surface Ditch from Landfill: Drop Structures	—	—	—	—
Surface Ditch from Landfill: Drop Structures	Worker	7.11	18.5	LDA,LDT1,LDT2

Surface Ditch from Landfill: Drop Structures	Vendor	2.78	10.2	HHDT,MHDT
Surface Ditch from Landfill: Drop Structures	Hauling	0.00	20.0	HHDT
Surface Ditch from Landfill: Drop Structures	Onsite truck	—	—	HHDT
Surface Ditch from Landfill: Ditch Lining	—	—	—	—
Surface Ditch from Landfill: Ditch Lining	Worker	7.11	18.5	LDA,LDT1,LDT2
Surface Ditch from Landfill: Ditch Lining	Vendor	2.78	10.2	HHDT,MHDT
Surface Ditch from Landfill: Ditch Lining	Hauling	0.00	20.0	HHDT
Surface Ditch from Landfill: Ditch Lining	Onsite truck	—	—	HHDT
Downstream Apron: Concrete Apron	—	—	—	—
Downstream Apron: Concrete Apron	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Apron: Concrete Apron	Vendor	2.78	10.2	HHDT,MHDT
Downstream Apron: Concrete Apron	Hauling	0.00	20.0	HHDT
Downstream Apron: Concrete Apron	Onsite truck	—	—	HHDT
Downstream Apron: Zone C	—	—	—	—
Downstream Apron: Zone C	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Apron: Zone C	Vendor	2.78	10.2	HHDT,MHDT
Downstream Apron: Zone C	Hauling	0.00	20.0	HHDT
Downstream Apron: Zone C	Onsite truck	—	—	HHDT
Downstream Apron: Riprap Apron	—	—	—	—
Downstream Apron: Riprap Apron	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Apron: Riprap Apron	Vendor	2.78	10.2	HHDT,MHDT
Downstream Apron: Riprap Apron	Hauling	59.0	12.1	HHDT
Downstream Apron: Riprap Apron	Onsite truck	—	—	HHDT

Downstream Apron: Riprap Bedding	—	—	—	—
Downstream Apron: Riprap Bedding	Worker	7.11	18.5	LDA,LDT1,LDT2
Downstream Apron: Riprap Bedding	Vendor	2.78	10.2	HHDT,MHDT
Downstream Apron: Riprap Bedding	Hauling	76.7	20.0	HHDT
Downstream Apron: Riprap Bedding	Onsite truck	—	—	HHDT
Furnish and Install Electrical / Controls and Instrumentation	—	—	—	—
Furnish and Install Electrical / Controls and Instrumentation	Worker	7.11	18.5	LDA,LDT1,LDT2
Furnish and Install Electrical / Controls and Instrumentation	Vendor	2.78	10.2	HHDT,MHDT
Furnish and Install Electrical / Controls and Instrumentation	Hauling	34.0	12.1	HHDT
Furnish and Install Electrical / Controls and Instrumentation	Onsite truck	—	—	HHDT
Furnish and Install Aeration System	—	—	—	—
Furnish and Install Aeration System	Worker	7.11	18.5	LDA,LDT1,LDT2
Furnish and Install Aeration System	Vendor	2.78	10.2	HHDT,MHDT
Furnish and Install Aeration System	Hauling	0.00	20.0	HHDT
Furnish and Install Aeration System	Onsite truck	—	—	HHDT
Part 1 Furnish and Install Erosion Control Measures	—	—	—	—
Part 1 Furnish and Install Erosion Control Measures	Worker	7.11	18.5	LDA,LDT1,LDT2
Part 1 Furnish and Install Erosion Control Measures	Vendor	2.78	10.2	HHDT,MHDT
Part 1 Furnish and Install Erosion Control Measures	Hauling	0.00	20.0	HHDT
Part 1 Furnish and Install Erosion Control Measures	Onsite truck	—	—	HHDT
Part 2 Furnish and Install Erosion Control Measures	—	—	—	—

Part 2 Furnish and Install Erosion Control Measures	Worker	7.11	18.5	LDA,LDT1,LDT2
Part 2 Furnish and Install Erosion Control Measures	Vendor	2.78	10.2	HHDT,MHDT
Part 2 Furnish and Install Erosion Control Measures	Hauling	0.00	20.0	HHDT
Part 2 Furnish and Install Erosion Control Measures	Onsite truck	—	—	HHDT
Part 3 Furnish and Install Erosion Control Measures	—	—	—	—
Part 3 Furnish and Install Erosion Control Measures	Worker	7.11	18.5	LDA,LDT1,LDT2
Part 3 Furnish and Install Erosion Control Measures	Vendor	2.78	10.2	HHDT,MHDT
Part 3 Furnish and Install Erosion Control Measures	Hauling	0.00	20.0	HHDT
Part 3 Furnish and Install Erosion Control Measures	Onsite truck	—	—	HHDT
Embankment Mitigation	—	—	—	—
Embankment Mitigation	Worker	42.5	18.5	LDA,LDT1,LDT2
Embankment Mitigation	Vendor	—	10.2	HHDT,MHDT
Embankment Mitigation	Hauling	42.9	20.0	HHDT
Embankment Mitigation	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

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 (Ton of Debris)	Acres Paved (acres)
Part 1 Site Demolition (Excludes Spillway)	0.00	0.00	0.00	1,248	—
Part 2 Site Demolition (Excludes Spillway)	0.00	0.00	0.00	1,248	—
Spillway Demolition: Existing Spillway Demo	0.00	0.00	0.00	7,020	—
Spillway Demolition: Crush Concrete Demo	0.00	0.00	0.00	15,600	—
Spillway Demolition: Bridge Pier and Facing Demo	0.00	0.00	0.00	7,020	—
Mobilization	—	1,350	13.8	0.00	—
Demobilization	—	3,000	13.8	0.00	—
Cleanup	—	1,800	110	0.00	—
Bypass Pumping Diversion Beam	80,000	—	0.00	0.00	—
Inclined Inlet Structure: Reinforced Concrete	—	88,800	13.8	0.00	—
Dam Control Building: Pt 1 CMU Control Building	—	4,200	0.00	0.00	—
Pedestrian Access Walkway, Stairs, Catwalk, Vehicle Ramp: Roadway Excavation	—	3,000	110	0.00	—
Spillway Site Excavations	—	9,000	69.4	0.00	—
Wall Type 2 - Left: Reinforced Concrete Wall	—	140,400	0.00	0.00	—
Stilling Basin: Basin Steps	—	4,200	0.00	0.00	—
Stilling Basin: Chute Blocks	—	2,400	0.00	0.00	—

Downstream Apron: Riprap Apron	—	13,500	0.00	0.00	—
Downstream Apron: Riprap Bedding	—	13,500	0.00	0.00	—
Furnish and Install Electrical / Controls and Instrumentation	—	25,200	0.00	0.00	—
Embankment Mitigation	120,000	—	1,313	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Linear	0.00	100%
General Light Industry	0.00	0%
Road Construction	0.09	100%
Bridge/Overpass Construction	0.06	100%
User Defined Linear	0.40	100%
General Light Industry	0.00	0%
User Defined Linear	0.00	100%
User Defined Linear	2.97	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	349	0.03	< 0.005
2025	0.00	349	0.03	< 0.005

2026	0.00	346	0.03	< 0.005
2027	0.00	346	0.03	< 0.005

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	10.3	annual days of extreme heat
Extreme Precipitation	4.25	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	55.3	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	64.9
AQ-PM	64.8
AQ-DPM	18.4
Drinking Water	57.2
Lead Risk Housing	9.33
Pesticides	0.00
Toxic Releases	73.0
Traffic	95.2
Effect Indicators	—
CleanUp Sites	17.1
Groundwater	14.3
Haz Waste Facilities/Generators	73.8
Impaired Water Bodies	23.9
Solid Waste	66.9
Sensitive Population	—
Asthma	7.91
Cardio-vascular	22.6
Low Birth Weights	12.6
Socioeconomic Factor Indicators	—
Education	27.2
Housing	54.6
Linguistic	20.6
Poverty	12.4
Unemployment	60.6

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	89.23392788
Employed	85.57679969
Median HI	92.4547671
Education	—
Bachelor's or higher	91.91582189
High school enrollment	17.87501604
Preschool enrollment	73.37354036
Transportation	—
Auto Access	98.98626973
Active commuting	3.349159502
Social	—
2-parent households	87.84806878
Voting	49.06967792
Neighborhood	—
Alcohol availability	97.0101373
Park access	61.56807391
Retail density	14.48736045
Supermarket access	53.29141537
Tree canopy	67.12434236
Housing	—
Homeownership	68.57436161
Housing habitability	76.78686
Low-inc homeowner severe housing cost burden	54.20248941
Low-inc renter severe housing cost burden	56.30694213
Uncrowded housing	79.21211344
Health Outcomes	—

Insured adults	84.28076479
Arthritis	89.2
Asthma ER Admissions	91.0
High Blood Pressure	76.3
Cancer (excluding skin)	49.7
Asthma	88.8
Coronary Heart Disease	92.9
Chronic Obstructive Pulmonary Disease	93.7
Diagnosed Diabetes	89.8
Life Expectancy at Birth	67.1
Cognitively Disabled	93.6
Physically Disabled	85.5
Heart Attack ER Admissions	65.4
Mental Health Not Good	89.0
Chronic Kidney Disease	90.3
Obesity	92.8
Pedestrian Injuries	72.8
Physical Health Not Good	93.2
Stroke	93.8
Health Risk Behaviors	—
Binge Drinking	26.9
Current Smoker	89.7
No Leisure Time for Physical Activity	86.6
Climate Change Exposures	—
Wildfire Risk	99.0
SLR Inundation Area	0.0
Children	51.6
Elderly	92.1

English Speaking	93.7
Foreign-born	54.4
Outdoor Workers	73.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	73.7
Traffic Density	95.1
Traffic Access	23.0
Other Indices	—
Hardship	6.1
Other Decision Support	—
2016 Voting	77.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	23.0
Healthy Places Index Score for Project Location (b)	89.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Data provided by applicant. Linear construction represented within vertical construction.
Construction: Off-Road Equipment	Equipment data provided by applicant.
Construction: Dust From Material Movement	Data provided by applicant - export quantities consolidated into a refined number of phases.
Construction: Trips and VMT	Monthly haul trip Data Provided by applicant; monthly haul trips accounted for in a consolidated number of phases.