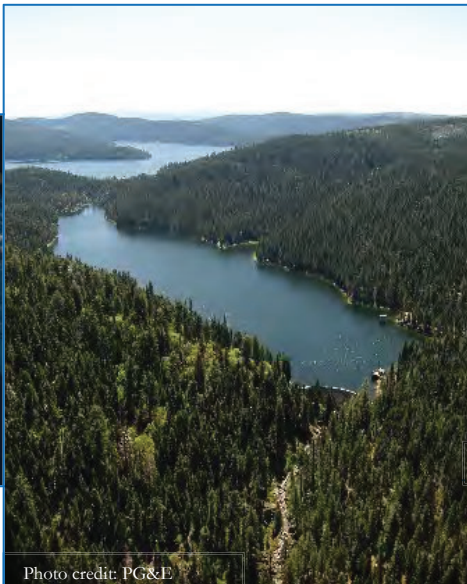


Draft CEQA Supplement for
Bucks Creek Hydroelectric Project
Federal Energy Regulatory Commission Project No. 619



June 3, 2020



City of Santa Clara

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ACRONYMS AND ABBREVIATIONS

AB	Assembly Bill
ADT	Average Daily Traffic
AIS	aquatic invasive species
APLIC	Avian Power Line Interaction Committee
AR	Aquatic Resources
Asbestos ATCM	Statewide Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying and Surface Mining Operations
BMPs	Best Management Practices
BO	Biological Opinion
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CalEEMod	California Emissions Estimator Model
CALFIRE	California Department of Forestry and Fire Prevention
CAP	Climate Action Plan
CARB	California Air Resources Board
CDFW	California Department of Fish and Wildlife
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
certification	water quality certification
cfs	cubic feet per second
CH ₄	methane
CHP	California Highway Patrol
City	City of Santa Clara
CO	carbon monoxide
CO ₂	carbon dioxide
CO _{2e}	carbon dioxide equivalents
CPUC	California Public Utilities Commission
CU	Cultural Resources
CWA	Clean Water Act
dB	decibels
DEIS	draft environmental impact statement
DWR	Department of Water Resources
EIS	Environmental Impact Statement
EPA	U.S. Environmental Protection Agency
°F	Fahrenheit
FAA	Federal Aviation Administration
FEIS	final environmental impact statement
FERC	Federal Energy Regulatory Commission
FLA	Final License Application
FOCA	Federal Office of Civil Aviation
Forest Service	U.S. Department of Agriculture, Forest Service
FPA	Federal Power Act
FTA	Federal Transit Administration
FWS	U.S. Department of the Interior, Fish and Wildlife Service
FYLF	foothill yellow-legged frog
GEN	General Measures
GHG	greenhouse gas
GS	Geology and Soils
GWh	gigawatt hours

GWP	global warming potential
HPMP	Historic Properties Management Plan
ILP	Integrated Licensing Process
IPCC	Intergovernmental Panel on Climate Change
IWM Act	California Integrated Waste Management Act of 1989
IWMP	Integrated Waste Management Plan
kV	kilovolt
kW	kilowatt
Leq	normally acceptable daytime noise levels
Licensees	The entities seeking a new FERC license for continued operation of the Bucks Creek Project, in this case, PG&E and the City of Santa Clara.
Lmax	maximum instantaneous noise level
LTS	less-than-significant
LTS w/MI	less-than-significant impact with mitigation incorporated
LU	Land Use and Aesthetics
MCAB	Mountain Counties Air Basin
MT	Metric Tons
MW	megawatt
MWh	megawatt-hour
NO ₂	nitrous oxide
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act
NFFR	North Fork Feather River
NFS	National Forest System
NAHC	Native American Heritage Commission
NI	no impact
NNIP	non-native invasive plant
NO ₂	nitrogen dioxide
NOA	notice of availability
NOI	notice of intent
NSAQMD	Northern Sierra Air Quality Management District
O ₃	ozone
OES	Office of Emergency Services
Pb	lead
PG&E	Pacific Gas and Electric Company
PM	particulate matter
PM&E measures	protection, mitigation, and enhancement measures
PPV	peak particle velocity
PSPS	public safety power shutoffs
Project	Bucks Creek Hydroelectric Project
RMA	Road Maintenance Agreement
RMP	road management plan
RMOs	Road Management Objectives
ROG	reactive organic gases
RPS	Renewable Portfolio Standard
RR	Recreation Resources
SB	Senate Bill
SCH	State Clearinghouse
SF ₆	sulfur hexafluoride
SMARA	Surface Mining and Reclamation Act
SMP	Shoreline Management Plan
SNYLF	Sierra Nevada yellow-legged frog

SO ₂	sulfur dioxide
SR	State Route
State Water Board	State Water Resources Control Board
SUI	significant unavoidable impact
Surfacing ATCM	Statewide Asbestos Airborne Toxic Control Measure for Surfacing Applications
SVP	Silicon Valley Power
taf	thousand acre-feet
TM	technical memorandum
TR	Terrestrial Resources
VMT	vehicle miles travelled
WMP	Wildfire Mitigation Plan
WR	Water Resources

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1.0 INTRODUCTION

The Bucks Creek Hydroelectric Project (Bucks Creek Project or Project) is owned by Pacific Gas & Electric Company (PG&E) and the City of Santa Clara (City). On December 12, 2016, PG&E and the City (collectively the licensees or applicants) jointly filed an application seeking a new Federal Energy Regulatory Commission (FERC) license for continued operation of the 84.8 megawatt (MW) capacity Bucks Creek Project (FERC Project No. 619) pursuant to FERC's Integrated Licensing Process (ILP). The licensees filed a supplemental application on May 22, 2018 (with a subsequent errata filed July 27, 2018). Issuance of a new license by FERC would allow the licensees to continue to generate electricity at the Project for the term of a new license (standard license terms now run 40 years, but FERC may write the license for as much as 50 years). The Project addressed in this document consists of the continued operation of the Bucks Creek Project pursuant to a new FERC license for either term.

1.1 CEQA and the City of Santa Clara as CEQA Lead Agency

Prior to undertaking a federal action, including issuance of a new license for continued operation and maintenance of the Bucks Creek Project, FERC must demonstrate compliance with the National Environmental Policy Act (NEPA) of 1969. In accordance with NEPA and FERC regulations (Title 18 Code of Federal Regulations Part 380), the FERC Office of Energy Projects reviewed the application for relicensing of the Bucks Creek Project and issued a draft environmental impact statement (DEIS) on June 14, 2019. This was followed by issuance of a final environmental impact statement (FEIS) for the Project on January 28, 2020. The FERC NEPA documents include detailed environmental analyses of the Bucks Creek Project, including licensee proposed protection, mitigation, and enhancement (PM&E) measures, recommended for inclusion in the new licenses for continued operation of the Project.

The State Water Resources Control Board (State Water Board) is the agency in California that is responsible for acting on applications for water quality certification of hydroelectric projects under section 401 of the Clean Water Act (CWA). The State Water Board must comply with the California Environmental Quality Act (CEQA) to issue water quality certification (a discretionary action) for the Project. CEQA compliance is also necessary to support the future discretionary action of the City of Santa Clara, including the decision of whether or not to accept the new license issued by FERC. The State Water Board usually acts as the CEQA Lead Agency for FERC relicensing projects in California when the applicant is a private entity (e.g., PG&E). However, in its capacity as part owner of the Bucks Creek Project, the City is acting as the CEQA Lead Agency for the Project, and the State Water Board is a Responsible Agency in the CEQA process.

Clean Water Act section 401 water quality certification (certification) confirms that the Project complies with all applicable water quality standards, limitations and restrictions, and is required prior to issuance of the FERC license. Water quality certification of the Project requires an analysis of a Project's overall effect on water quality, including whether the designated beneficial uses identified in the Basin Plan (in this case the Central Valley Regional Water Quality Control Board Water Quality Control Plan for the Sacramento and San Joaquin River Basins¹) are adequately protected. While the State Water Board is a formal participant in the FERC relicensing process, including input and review throughout the FERC Environmental Impact Statement (EIS) process, it must also use this CEQA Supplement to complete its review of the Project's effects on public trust resources.

When a project action requires compliance with both CEQA and NEPA, and NEPA is completed prior to CEQA, state and local agencies are encouraged to use the NEPA process and document rather than preparing

¹ Water Quality Control Plan for the California Regional Water Quality Control Board Central Valley Region for the Sacramento River Basin and the San Joaquin River Basin. Fifth Edition. Revised May 2018 (with Approved Amendments).

an independent CEQA document (California Code of Regulations, Title 14 § 15221a). However, where the NEPA document does not fully meet all the requirements of CEQA, those points of analysis missing from the NEPA document must be added, supplemented, or identified (California Code of Regulations, Title 14 § 15221a).²

As the NEPA documents prepared for the Bucks Creek Project include most but not all of the points of analysis required under CEQA, the City of Santa Clara has prepared this CEQA Supplement to augment the analysis in FERC's NEPA documents. Specifically, the CEQA environmental analysis herein uses the independent NEPA analyses completed by FERC, supplemented by the following:

- Evaluation of the resource areas where NEPA analyses were absent or inadequate to meet CEQA requirements.
- Evaluation considerations specific to CEQA, including growth-inducing effects.
- Determination of the level of significance for all impacts identified for CEQA resource areas.

This draft CEQA Supplement has been prepared in accordance with CEQA (Public Resources Code, § 21000 et seq.) and the CEQA Guidelines (California Code of Regulations, Title 14, § 15000 et seq.), consistent with Public Resources Code Section 21083.5 and California Code of Regulations, Title 14, § 15221.

1.2 CEQA Process and Use of FERC's EIS

FERC distributed and noticed the availability (NOA) of the DEIS for the Bucks Creek Project on June 14, 2019. The notice included a deadline of August 13, 2019 for submission of comments (60 days). State CEQA Guidelines §15225 provide that a CEQA lead agency (i.e., the City) may rely on a NEPA document (i.e., FERC's environmental impact statement) to satisfy CEQA provided that the NEPA document is circulated for public review as broadly as state law requires and its availability is noticed consistent with CEQA standards. To ensure compliance with CEQA Guidelines, the City of Santa Clara completed the actions below. Appendix A includes copies of the notices distributed.

- Announced its CEQA Lead Agency role via letter to resource and land management agencies and other potential stakeholders on June 23, 2017, with a follow-up announcement to additional stakeholders on February 13, 2019.
- Provided notice to relicensing participants and other interested parties during the week of June 24, 2019 declaring the City's intention to rely on FERC's EIS, in combination with a supplemental analysis, to meet the requirements of CEQA. The notice was distributed as follows:
 - A notice of intent (NOI)/NOA of FERC's DEIS in the form of a formal letter was posted by the: 1) Santa Clara County Clerk, and 2) the Plumas County Clerk, between June 25 and June 28, 2019.
 - The NOI/NOA formal letter was filed at the State Clearinghouse (SCH) on June 26, 2019 along with the DEIS.
 - The NOI/NOA formal letter was distributed to relicensing participants and FERC on June 26, 2019. The distribution list includes all unique addresses on FERC's distribution list for the DEIS, supplemented by additional unique addresses to which the City had sent prior notices regarding the Project.
 - An abbreviated version of the formal letter NOI/NOA was published as a legal advertisement/public notice in the following newspapers:

² For many projects and programs requiring CEQA and NEPA analysis, a joint document, such as an EIS/Environmental Impact Report (EIR) is prepared. However, FERC's consistent practice has been to focus on preparation of only a NEPA document (e.g., the FERC-issued Bucks Creek Project EIS), and therefore the City proposed preparation of a CEQA Supplement to the EIS to meet CEQA requirements.

- The Santa Clara Weekly (notice published June 26, 2019)
 - All four papers in Plumas County via the Plumas News (notice published June 26, 2019)
 - The Chico Enterprise-Record (notice published June 28, 2019)
- Posted copies of the NOI/NOA formal letter along with making FERC's DEIS available for public review at the following locations:
 - City of Santa Clara offices (1500 Warburton Avenue, Santa Clara, CA 95050) and on the City's website: <http://www.siliconvalleypower.com/svp-and-community/projects> (posted on June 19, 2019).
 - Plumas County Library, 445 Jackson Street, Quincy, CA 95971 (June 17, 2019).
 - Chico Branch Library, 1108 Sherman Avenue, Chico, CA 95926 (June 17, 2019).
 - Oroville Branch Library, 1820 Mitchell Avenue, Oroville, CA 95966 (June 17, 2019).
 - Held two public meetings to solicit and collect input from stakeholders and other members of the public to inform preparation of the CEQA analysis:
 - The first meeting was held in conjunction with FERC's public meeting on the DEIS in Oroville, California on August 1, 2019.
 - The second public meeting was held at Silicon Valley Power (SVP) headquarters in Santa Clara, California on August 7, 2019.

During the relicensing process, the licensees collaborated with state and federal resource agencies, Native American Tribes, non-governmental organizations, and members of the public (collectively, the relicensing participants) to develop proposed new license conditions. The relicensing website for the Project provides information about the relicensing process, access to public documents, and details about the Project, public participation, communication plans, and meetings. The website can be accessed at: <http://www.bucksrelicensing.com/Public>.

The FERC Staff Alternative presented in the FEIS, in combination with resource agency terms and conditions (see Section 2.2, Project Description), reflects the result of collaborative efforts between the licensees and the Bucks Creek relicensing participants. Appendix A provides documentation related to the circulation the City of Santa Clara's notice of its intent to rely on FERC's EIS, in combination with this supplemental analysis, to meet the requirements of CEQA.

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2.0 PROJECT DESCRIPTION

The licensees (PG&E and City of Santa Clara) are seeking renewal of their FERC license to continue operation and maintenance of the Bucks Creek Project. This chapter summarizes the existing facilities and power operations of the Bucks Creek Project, and the changes to facilities and operations that would be associated with license renewal, and also summarizes the environmental measures (proposed by the licensees, by FERC, and by the agencies) that would be implemented under the new license agreement. Descriptions of existing facilities and modifications and conditions associated with the new license are largely summarized and/or excerpted from the FERC FEIS, Section 2.0, Proposed Action and Alternatives, and from the Supplement to the Final License Application (FLA) prepared by PG&E and City of Santa Clara and filed with FERC on May 22, 2018.

2.1 Existing Project

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly Powerhouses owned by PG&E and the City of Santa Clara, respectively.³ The Bucks Creek Powerhouse includes two revolving field generators that have a total maximum capacity of 65 MW. The Grizzly Powerhouse contains one synchronous generator with a maximum capacity of 19.8 MW. Existing components of the Project also include a 4.2-mile-long, 115-kilovolt (kV) Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. Construction of the Bucks Creek facilities was completed in 1928. The Grizzly Development, which added the Grizzly Tunnel and Grizzly Powerhouse to the Project, was completed in 1993. Figure 2.1-1 (sourced from the 2016 FLA) shows the project region. Figure 2.1-2 (sourced from the 2016 FLA) shows Project hydroelectric facilities that are under FERC's hydropower license jurisdiction. The project is a peaking system normally operated remotely from PG&E's Rock Creek Powerhouse Switching Center. A peaking system, when referring to hydropower facilities, is the practice of releasing pulses of water to increase power production in order to meet peak daily electricity demand. Project operations are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River (NFFR) watershed (FERC Project Nos. 2107, 2105, and 1962). The Supplement to the FLA, Exhibit H, Project Need and Key Information, includes additional details about the efficiency and reliability of the Project and how the Project is coordinated with other electric systems.

The existing Project boundary (the boundary defined in the license issued by FERC for the Project outlining the geographic area needed for Project operations and maintenance) is 3,148.2 acres and lies entirely within the exterior boundary of the Plumas National Forest, which is administered by the U.S. Department of Agriculture, Forest Service (Forest Service). Within the Project boundary land area is composed of 1,539.5 acres of the Plumas National Forest, 1,601.2 acres of PG&E-owned lands and 7.5 acres of private land. The Project generates an average of about 271,000 megawatt-hours (MWh) of energy annually. The Project provides a total of 16 recreation facilities⁴ associated with four primary recreation areas, all of which are located in the vicinity of the four Project reservoirs: (1) Bucks Lake, (2) Lower Bucks Lake, (3) Three Lakes, and (4) Grizzly Forebay. The existing Project recreation facilities consist of campgrounds, day-use facilities, trails, and boat ramps. Table 2.1-1 (modified from the FERC FEIS, Table 3-27), organizes and describes each of the 16 recreation facilities according to the reservoir the facility is associated with. Figure 2.1-3, (sourced from the Final Recreation

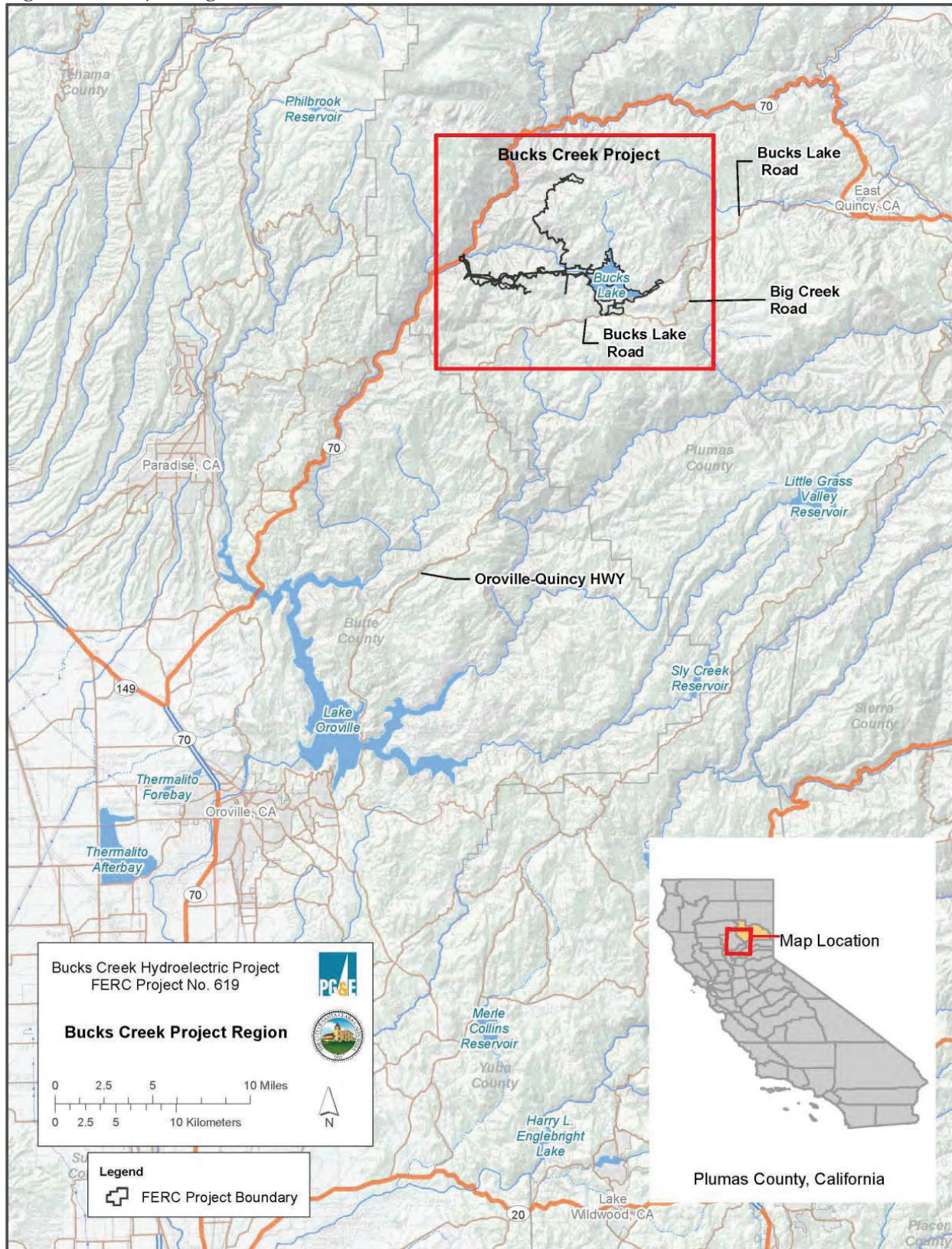
³ Pursuant to a 1990 Settlement Agreement and an Operations and Maintenance Agreement between PG&E and the City, PG&E operates the Grizzly Development, though the City owns the Grizzly Development and financed its construction.

⁴ In some Project documents some trails and campgrounds are grouped together as a single facility, and in others they are described as two separate facilities. FERC's FEIS for the Project describes 16 existing facilities (FERC FEIS, Section 3.3.5, Recreation Resources, Table 3-27).

Management Plan for the Project) depicts both Project and Non-Project recreation facilities. FERC's FEIS, Section 2.1 (which presents the No-Action Alternative) provides a full description of the existing project, including an overview of project facilities, project safety, existing project operation, and existing environmental protection measures.

Table 2.1-1 Existing Project Recreation Facilities

Recreation Facility	Capacity
Bucks Lake	
Haskins Valley Boat Launch	5 parking spaces (single vehicle) and launch lane
Haskins Valley Campground	65 guest campsites 2 host campsites
Hutchins Group Campground	3 group campsites 1 host campsite Hutchins Group Campground Trail (approximately 0.25 mile)
Indian Rock Day Use Area	2 picnic sites 8 parking spaces
Mill Creek Campground	10 guest campsites 1 host campsite Mill Creek Tie Trail (approximately 0.25 mile)
Sandy Point Boat Launch	30 parking spaces (vehicle w/trailer)
Sandy Point Day Use Area	30 picnic sites 1 host campsite 22 parking spaces and launch lane
Sundew Campground	22 guest campsites 1 host campsite
West End Cove Day Use Area	3 picnic sites 6 parking spaces (single vehicle)
Lower Bucks Lake	
Lower Bucks Lake Campground and Day Use Area	7 campsites
Grizzly Forebay	
Grizzly Forebay Campground	7 campsites
Grizzly Forebay Trail	0.77 mile
Grizzly Forebay Gaging Station Trail	675 feet
Grizzly Forebay Recreation Area	12 parking spaces (single vehicle) and launch lane
Grizzly Powerhouse Fishing Access	10 parking spaces
Three Lakes	
Three Lakes Trailhead	9 parking spaces 1 mile of trail

Figure 2.1-1. Project Region

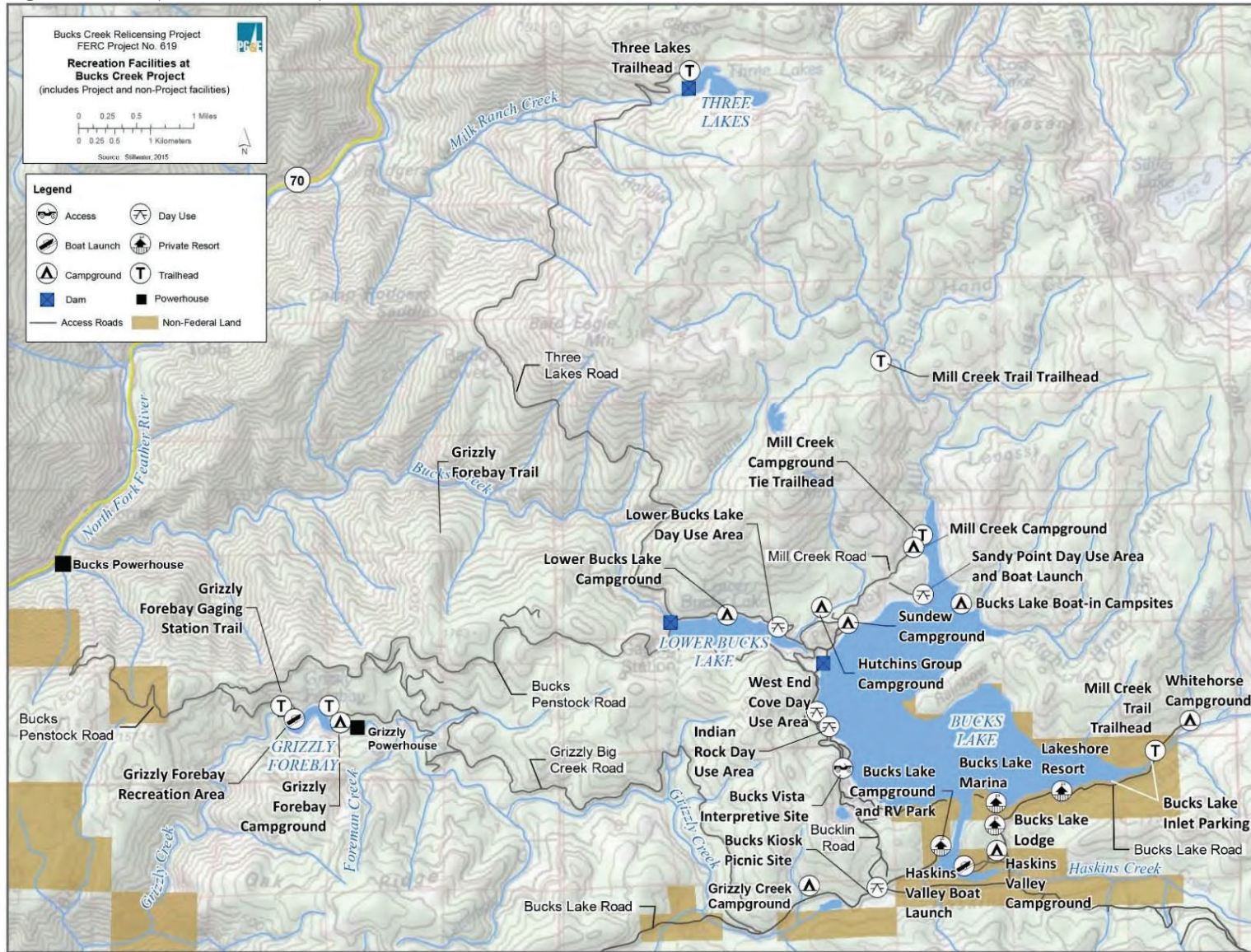
Document Name: DLA_BucksRelicensing_ProjectRegion Date: 5/17/2016

Source: Final License Application, Figure A-1, PG&E and City of Santa Clara 2016

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Figure 2.1-3. Project and Non-Project Recreation Facilities



Source: Recreation Management Plan, Figure 1.1-1, PG&E and City of Santa Clara 2019a

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2.2 Description of Proposed Project Under New FERC License

The proposed Project analyzed in this Draft CEQA Supplement is the continued operation and maintenance of the Bucks Creek Project under a new license. The new license would consist of: a) modifications to existing Project facilities, and adjustment of the Project boundary as described in the licensees' applications to FERC, b) protection, mitigation, and enhancement measures (PM&E measures) proposed by the licensees, c) FERC Staff recommended modifications of the licensees' proposal and additional measures (see *Staff Alternative*, below), and d) all mandatory terms and conditions. Mandatory terms and conditions are those required by the Forest Service under section 4(e) of the Federal Power Act (Forest Service 2019) and all the terms and conditions required in the State Water Board's future decision on section 401 certification of the Project (State Water Board 2018). Together these components comprise the whole of the Project expected to be implemented under the new license and reflect the license that the City will be requested to review for adoption.

2.2.1 Modifications to Existing Facilities and Adjustment of the Project Boundary

The proposed Project does not include any activities that would involve major construction or changes in power generation facilities. The Project would continue to be operated as it has historically been operating, except for the changes associated with PM&E measures. The PM&E measures proposed to be included in the FERC license were developed by the licensees in coordination with relicensing stakeholders to assure full protection, mitigation and enhancement of environmental resources. The PM&E measures would have minimal impacts to project operation. Physical modifications associated with the new license would be made to the Bucks Lake Dam flow release structure, to the Milk Ranch Conduit Diversion No. 8, and to Project transportation and recreation facilities. The new license would also adjust the Project boundary. The key components of the relicensing Project are described in detail in the May 2018 Supplement to the FLA prepared by PG&E and City of Santa Clara, and in the FERC FEIS, Section 2.0, Proposed Action and Alternatives. The following summarizes the facility modification and boundary adjustment that would be enacted under the new license agreement.

- **Modifications to Existing Facilities.**

- At Bucks Lake Dam, install a Howell-Bunger valve at the end of the existing low-level outlet at the base of the dam to release the minimum flows into Bucks Creek.
- Cap or cover Milk Ranch Conduit Diversion No. 8 to prevent diversion of water from Bear Ravine.
- Implement the Recreation Management Plan (PG&E and City of Santa Clara 2019a), which includes modifications (reconstruct, retrofit/improve or repair) to most of the existing Project recreation facilities⁵. Recreation facilities are associated with the four recreation reservoirs within the Project boundary (Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay) and include six campgrounds, as well as picnic areas, boat launches, day use areas, and trails. In general, existing Project recreation facilities would be reconstructed in-kind to provide the same level of development and visitor comfort while meeting current, applicable federal and state guidelines that exist during the design phase. Specific planned improvements include:
 - a net increase of 19 family campsites and four group campsites,
 - the addition of additional drinking water spigots at those campgrounds where additional overnight campsites are added,

⁵ The FERC Project boundary is proposed to be modified to exclude lands and roads that are not necessary for operations and maintenance of the Project. Additionally, as stated in the Recreation Management Plan (September 2019), licensees entered into a Settlement Agreement with the Forest Service which specifically excludes certain facilities and lands from the Project including: (1) the restroom at Three Lakes Trailhead, (2) Grizzly Powerhouse Fishing Access Facility, and (3) the Mill Creek Trail and Trailhead near Bucks Lake Inlet.

- construction of: between five and ten new vault toilets,
- replacement of some existing vault toilets and water systems (including those associated with flush restrooms),
- installation of electrical hook-ups (e.g. 120-volt outlets) at between 20 and 30 campsites, and
- a net increase of up to 25 additional new parking spaces.⁶

The Project also proposes construction of two new recreation facilities: 1) Bucks Lake Shoreline Trail, and 2) formalizing of campsites at the Bucks Lake Boat-In Campground.

These facility modifications are incremental improvements planned at specified recreational sites over the course of 20 years from issuance of the new FERC license. Beginning in the 20th year after license issuance, the need for replacing or reconstructing Project recreation facilities will be discussed and planned, as may be necessary, during annual consultation. The October 2019 Final Recreation Management Plan describes each of the proposed modifications in detail and is available at:

http://www.bucksrelicensing.com/Public/Documents/Bucks_Creek_Recreation_Management_Plan_Rev_2019-10-01_Final.pdf.

- **Adjustment of the Project Boundary.** The licensees propose to modify the FERC Project boundary in select areas to include existing facilities and roads necessary for project operations and maintenance, and to exclude excess land and roads currently within the FERC Project boundary that are not required for Project purposes. This proposed adjustment would remove 367.5 acres from the existing Project boundary. Federally-managed land (National Forest land) within the Project boundary would be reduced by 240.1 acres, resulting in a total of 1,299.4 acres of federal land managed by the Forest Service remaining in the Project boundary. PG&E land within the Project boundary would be reduced by 128.1 acres, resulting in 1,473.1 acres of PG&E land remaining within the Project boundary. Other private land within the Project boundary would be increased by one acre, resulting in 8.2 acres of private land within the Project boundary.⁷

2.2.2 Enactment of Protection, Mitigation and Enhancement (PM&E) Measures

The Project includes new measures designed to protect or enhance environmental resources. The following list of measures, excerpted from the FEIS (Section 2.2.4), summarizes the 37 PM&E measures proposed by the licensees plus the two additional environmental measures proposed by FERC in the FERC Staff Alternative (39 measures total). The summary of each measure includes a reference to a more detailed description of the measure (e.g., WR-1) that can be found in the licensees' Supplement to the Final License Application (PG&E and City of Santa Clara 2018). The FERC Staff Alternative in the FEIS does not include the three General Measures (GEN-1, GEN-2 and GEN-3) proposed by the licensees. In addition, the FERC Staff Alternative recommends modifications to three of the licensees proposed measures (WR-7, AR-2 and TR-5), and

⁶ The total numbers of new campsites, parking spaces, and other infrastructure that would be added under the new license are estimates. The redevelopment of most campgrounds and other recreation facilities are (at the time of this analysis) in a conceptual design phase that includes some amount of reconfiguration of most facilities. Reconfiguration generally proposes elimination of some campsites, picnic areas and parking spots and the addition of others. The quantitative estimates provided here are based on narrative descriptions in the FEIS and in the Recreation Management Plan (PG&E and City of Santa Clara 2019a). This and the FERC analysis of recreation-dependent effects and future recreation facility capacity assumed the maximum number of features would be constructed at these sites.

⁷ As an addition to these changes, FERC, in its FEIS Staff Alternative recommends revising the Project boundary after construction to include the area from the proposed location of the Bucks Lake Shoreline Trail to the shoreline of Bucks Lake and to fully encompass the relocated Lower Bucks Lake Campground because the trail and campground would be a part of the licensees' recreation facilities that support public access to the Project.

recommends the addition of two additional environmental measures. Footnotes within the text below distinguish those PM&E measures excluded and modified in the FERC Staff Alternative, and describe FERC's proposed modification (as applicable). The two additional environmental measures FERC recommends are summarized at the end of the below list of measures.

- General Measures (GEN)⁸
 - Provide annual employee training related to special-status species, non-native invasive plants (NNIP), cultural resources, and reporting procedures (GEN-1).
 - Consult annually with the Forest Service and other interested agencies regarding license implementation, resource monitoring results, non-routine maintenance, and overall coordination of activities occurring on National Forest System (NFS) land (GEN-2).
 - Establish an Ecological Consultation Group to annually consult on the implementation of resource management plans and other applicable license conditions (GEN-3).
- Geology and Soils (GS)
 - Implement an Erosion Management Plan (LU-6) (filed September 20, 2019) to minimize future erosion and sedimentation as a result of ground-disturbing activities from routine operations and maintenance, emergency actions, and planned projects associated with specific resource plans within the Project boundary.
- Aquatic Resources (AR)
 - Allow large woody material to pass over Grizzly Forebay Dam and Lower Bucks Lake Dam during spill events to improve aquatic habitat downstream. Wood at Bucks Lake Spillway would be manually relocated to the Lower Bucks Lake Spillway to protect a road crossing over the spillway (GS-1).
 - Implement a Gravel Augmentation Plan (GS-2) (filed September 20, 2019) to improve trout spawning habitat and populations downstream of Lower Bucks Dam and Grizzly Forebay Dam.
 - Provide higher minimum instream flows, by water year type and month, to Bucks Creek below Lower Bucks Lake Dam (ranging from 4 to 15 cfs), and Grizzly Creek below Grizzly Forebay (ranging from 4 to 13 cfs). (WR-1)
 - Provide minimum instream flows where none are required under the existing license, by water year type and month, in the following reaches: Bucks Creek below Bucks Lake Dam (3 cfs in all months regardless of water year type), Milk Ranch Creek downstream of Three Lakes (ranging from 0.25 cfs to the unimpaired inflow to the reservoir), Milk Ranch Creek at Milk Ranch Conduit Diversion No. 1 (ranging from 0.25 cfs or the natural inflow, whichever is less, to 2 cfs), and South Fork Grouse Hollow Creek at Milk Ranch Conduit Diversion No. 3 (0.5 cfs or natural inflow, whichever is less) (WR-1).
 - Initiate the annual drawdown of Three Lakes between August 15 and September 15 to discourage brook trout spawning in the drawdown zone (WR-3). Provide channel maintenance flows of increased duration and magnitude to Bucks Creek below Lower Bucks Lake Dam and Grizzly Creek below Grizzly Forebay Dam to protect and enhance riparian and instream habitat (WR-4).
 - Continue to manage reservoir operations to maintain the following existing minimum pool elevations to protect and enhance aquatic habitat and recreation resources: 4,966 feet at Lower Bucks Lake; 6,050 feet at Lower Lake; 6,057 feet at Middle Lake; 4,303 at Grizzly Forebay; in a Dry or Critically Dry water year type, 5,080 feet at Bucks Lake; and in a Wet or Normal water year type, 5,100 feet at Bucks Lake, and not exceed 15 feet below the water surface elevation as of June 1 between June 1 and September 1 (WR-5).

⁸ The FERC Staff Alternative does not include any of these General Measures. For details please see Section 2.3 of the FERC FEIS, Staff Alternative.

- Gradually decrease powerhouse load changes during managed spills, and schedule no outages longer than 2 weeks at Bucks and Grizzly Powerhouses during April through July to reduce potential effects of flow fluctuations on fisheries and breeding and rearing foothill yellow-legged frogs (FYLF) (WR-6).⁹
- Determine water-year type annually, to be used for the implementation of instream flows (WR-1), channel maintenance flows (WR-4), Project reservoir operations (WR-5), and Milk Ranch Conduit bypass flows in Wet water years (WR-9, based on the California Department of Water Resources (DWR) forecast to be consistent with other NFFR watershed hydroelectric projects and simplify compliance and operational consistency for instream flows¹⁰ (WR-7)
- Leave six inoperable diversions along Milk Ranch Conduit in place to maintain current channel and riparian conditions (WR-8).
- Allow unimpaired flow at two Milk Ranch Conduit diversions, Milk Ranch Creek (Diversion No. 1) and North Fork Grouse Hollow Creek (Diversion No. 2), during Wet water years rather than seasonally diverting flows into the conduit to enhance seasonal aquatic habitat and year-round riparian resources (WR-9).
- Implement a Streamflow and Reservoir Level Gaging Plan (WR-10) (filed September 20, 2019) to document compliance with streamflow and reservoir level requirements.
- Implement a Hazardous Materials Management Plan (LU-5) (filed September 20, 2019), which includes standard practices regarding the storage, use, transport, and disposal of hazardous materials to protect water quality.
- Develop a fish stocking plan for Bucks Lake, Grizzly Forebay, and Middle and Lower Three Lakes to improve the recreational fishery (AR-1).
- Implement an Aquatic Resources Monitoring Plan (AR-2) (filed September 20, 2019) that includes measures to monitor stream fish populations in Milk Ranch, Bucks, and Grizzly Creeks downstream of Project dams; brook trout in Three Lakes; benthic macroinvertebrates and FYLF in Project-affected reaches of Bucks, Grizzly, and Milk Ranch Creeks; water temperature in lower portions of Milk Ranch Creek, Bucks Creek, and Grizzly Creek, upstream of the NFFR; water quality in recreational areas of Bucks Lake, Lower Bucks Lake, Grizzly Forebay, and Three Lakes and Bucks Creek downstream of Lower Bucks Lake; and stream channel morphology, large woody material and riparian vegetation in Bucks and Grizzly Creeks below Lower Bucks Lake Dam and Grizzly Dam, respectively, to document any long-term changes in resource conditions in order to facilitate resource management.¹¹
- Implement an Aquatic Invasive Species Management Plan (AR-4) (filed September 20, 2019) to prevent the introduction and spread of aquatic invasive species on Project land.
- Terrestrial Resources (TR)
 - Implement an Integrated Vegetation Management Plan (TR-1) (filed September 20, 2019) that includes measures to protect special-status plant populations and natural communities on Project land.
 - Implement a Bald Eagle Management Plan (TR-2) (filed September 20, 2019) to protect eagles on Project land from disturbance.

⁹ Project effects on all amphibian and aquatic reptiles are addressed in sections the FERC FEIS, Section 3.3.3, Terrestrial Resources, or Section 3.3.4, Threatened and Endangered Species, as listing status dictates. However, this measure pertains to flow regulation, so it is listed under Aquatic Resources.

¹⁰ FERC modification recommendation: “Modify the proposed annual determination of water year type (WR-7) to also provide the results to the Fish and Wildlife Service, State Water Board, and California Department of Fish and Wildlife, in addition to Forest Service and FERC.” (FERC FEIS, Section 2.3, Staff Alternative).

¹¹ FERC modification recommendation: “Modify the proposed Aquatic Resources Monitoring Plan (AR-2) to include only monitoring of gravel in Bucks Creek downstream of Lower Bucks Lake Dam spillway and in Grizzly Creek downstream of the Grizzly Creek gaging weir because only the proposed gravel monitoring would evaluate a project effect and determine the need for additional gravel augmentation.” (FERC FEIS, Section 2.3, Staff Alternative).

- Limit operations and maintenance activities on Project land during the osprey breeding season (March 15 to August 31). During this period, 300- to 500-foot protective buffers would be established around active osprey nests when conducting potentially disruptive Project maintenance activities to protect nesting birds from disturbance. Buffers would extend to a 1,000-foot radius if prolonged helicopter use is planned (TR-3).
- Limit operations and maintenance activities on Project land during the California spotted owl and northern goshawk breeding seasons (March 1 through August 31 and February 15 through August 31, respectively). During this period, 0.25-mile protective buffers would be established around active nests when conducting potentially disruptive project maintenance activities to protect nesting birds from disturbance (TR-4).
- Evaluate, and upgrade if necessary, the Project transmission line for consistency with Avian Powerline Interaction Committee (APLIC) standards and implement other raptor protection measures. Throughout the term of the new license, ensure all newly installed powerlines, poles, conductors, and other transmission infrastructure conform to current guidelines to minimize or avoid electrocution and collision hazards¹² (TR-5).
- Conduct nesting surveys on Project land for California spotted owls and northern goshawks the first year following license issuance, then every 7 years thereafter, and establish buffers in which no work would occur around active nests to protect nesting birds from disturbance (TR-6).
- Limit operations and maintenance activities on Project land during willow flycatcher breeding season within buffer zones around suitable habitat to protect nesting birds from disturbance (TR-7).
- Consult with a bat biologist prior to significant Project facility modifications and Project-related vegetation management activities to protect maternity colonies composed of approximately 50 bats or more and colonies of any size if composed of special-status bats.
- Inspect Project tunnels for bats prior to conducting operations and maintenance activities in the winter and implement appropriate protective measures or a limited operating period to protect hibernacula supporting special-status bat species or approximately 50 or more non-special-status bats (TR-9).
- Consult with a bat biologist prior to any loud/vibration operations and maintenance activities along Three Lakes Road or Three Lakes Dam to protect special-status bat species during the maternity season (TR-8).
- Threatened and Endangered Species
 - Provide unimpaired flows to Bear Ravine at Milk Ranch Conduit Diversion No. 8 to protect the federally endangered Sierra Nevada yellow-legged frog (SNYLF) and its critical habitat (WR-2).
 - Implement a SNYLF Management Plan (AR-3) (filed September 20, 2019) that includes measures to protect SNYLF and their suitable habitat during Project-related operations and maintenance activities in areas above 4,500 feet.
- Recreation Resources (RR)
 - Implement a Recreation Management Plan (RR-1) (filed October 3, 2019) that includes measures to address existing and future recreation resource needs within the Project boundary.
- Land Use and Aesthetics (LU)
 - Implement a Transportation Management Plan (LU-1) (filed September 20, 2019) that provides guidance for the rehabilitation and maintenance of Project roads.
 - Implement a Fire Prevention and Response Plan (LU-2) (filed September 20, 2019) that includes procedures for fire prevention, reporting, and safe fire practices for Project facilities.

¹² FERC modification recommendation: “Develop an avian protection plan that outlines the design of any proposed modifications to the project transmission line to protect birds from electrocution or collisions that may result from the licensees’ review of existing facilities (TR-5).” (FERC FEIS, Section 2.3, Staff Alternative).

- Implement a Shoreline Management Plan (SMP) (LU-3) (filed September 19, 2019) that addresses all shorelines within the Project boundary, and guides the use, occupancy, and management of shoreline resources.
- Consult with the Forest Service prior to painting the exterior of Project facilities on NFS land, to select a suitable paint color that minimizes the contrast between facilities and their surrounding landscape (LU-4).
- Cultural Resources (CU)
 - Implement an Historic Properties Management Plan (CU-1) (filed August 15, 2019) to protect and preserve historic properties identified in the Project area, as well as ongoing inventory and evaluation of cultural resources in the Project area.
- FERC Proposed Environmental Measures
 - Develop a drought management plan that defines drought conditions based on available data specific to the Project, rather than regional or state-wide proclamations, to ensure modifications to operations during extended low-water periods are only implemented as necessary and in a manner that would protect aquatic resources.
 - Implement measures concerning qualification of biologists conducting monitoring and surveys or handling SNYLF and amphibian rescue during road maintenance, reporting, and decontamination protocols [Biological Opinion (BO) condition 1].

2.2.3 Mandatory Conditions

In addition to the facility modifications, boundary adjustment, and PM&E measures described above, the FERC EIS (and this CEQA) analysis considers the impacts associated with mandatory Forest Service 4(e) conditions (Forest Service 2019), and the impacts of the proposed terms and conditions contained in the State Water Board's anticipated section 401 certification of the Project.¹³ Many of these terms and conditions are reflected in the licensees' proposed PM&E conditions. Section 4(e) of the Federal Power Act allows the Forest Service to require that the license for a hydroelectric project include conditions deemed necessary to protect National Forest resources while allowing the wise development of an energy resource. State Water Board terms and conditions would protect designated beneficial uses identified in the Basin Plan where the project is located and assure that the Project would comply with all applicable water quality standards, limitations and restrictions.

The Forest Service filed 62 final terms and conditions under section 4(e) of the Federal Power Act on October 10, 2019 (attached as Appendix C to the FERC FEIS). The State Water Board proposed 22 preliminary terms and conditions (attached as Appendix D to the FERC FEIS) on October 5, 2018 (State Water Board 2018). The list below summarizes all of the Forest Service final 4(e) conditions and the State Water Board proposed terms and conditions. All of these conditions are expected to be implemented as part of the new license.

- Forest Service Section 4(e) Land Management Conditions.
 - Condition 1: Consult annually with the Forest Service, regarding licensee's activities on, or directly affecting, National Forest land.
 - Condition 2: Establish an Ecological Consultation Group and host annual meetings to discuss the licensees' compliance with license conditions and implemented measures that have implications for ecological resources.

¹³ FERC, in the EIS, differentiated mandatory conditions as either administrative or resource-specific. Of the 62 Forest Service final 4(e) conditions FERC considered 24 of the conditions (conditions 1, 3 through 20, and 22 through 26) to be administrative or legal in nature, and the other 39 conditions to be resource-specific. Of the 22 State Water Board proposed terms and conditions, FERC considered preliminary conditions 2 and 20 through 22 to be administrative, and the other 18 conditions to be resource specific. FERC did not analyze conditions deemed "administrative" under NEPA in the EIS. The FERC-identified administrative conditions are not conditions associated with significance conclusions for any resources under CEQA and their inclusion or exclusion in the environmental analysis is not, therefore, a substantive matter for this CEQA analysis.

- Condition 3: Before any new construction of the Project occurs on National Forest land, licensees shall obtain prior written approval of Forest Service for all final design plans for Project components, which Forest Service deems as affecting or potentially affecting National Forest System resources.
- Condition 4: Obtain written approval from Forest Service prior to making any changes in any constructed Project features or facilities, or in the uses of Project lands and waters or any departure from the requirements of any approved exhibits filed with FERC, when such changes affect National Forest lands.
- Condition 5: Maintain all improvements and premises on National Forest lands to standards of repair, orderliness, neatness, sanitation, and safety acceptable to the Forest Service.
- Condition 6: The FERC license shall be subject to all valid claims and existing rights of third parties.
- Condition 7: Comply with all applicable regulations of the Department of Agriculture for activities on National Forest land, and comply with all applicable Federal, State, county, and municipal laws, ordinances, or regulations in regards to the area or operations on or directly affecting National Forest land, to the extent those laws, ordinances or regulations are not preempted by federal law.
- Condition 8: Prior to any surrender of the FERC license, provide assurance acceptable to the Forest Service that licensees shall restore any project area directly affecting National Forest land to a condition satisfactory to the Forest Service upon or after surrender of the license as appropriate.
- Condition 9: Licensees, including any agents or employees of Licensees acting within the scope of their employment, shall exercise diligence in protecting from damage the land and property of the United States covered by and used in connection with this license.
- Condition 10: Adhere to indemnification/hold harmless agreement.
- Condition 11: Protect the land, property and interests of the United States from damage arising from construction, maintenance, or operation of the Project works or the work appurtenant or accessory thereto under the license.
- Condition 12: Identify and report all known or observed hazardous conditions on or directly affecting National Forest land within the Project boundary that would affect the improvements, resources, or pose a risk of injury to individuals. Abate those conditions associated with the occupancy or use authorized by the license.
- Condition 13: Maintain and respect the Forest Service right of access to National Forest land.
- Condition 14: Maintain suitable crossings as required by the Forest Service for all roads and trails that intersect the right-of-way occupied by linear Project facilities (powerline, penstock, ditch and pipeline).
- Condition 15: Avoid disturbance to all public land survey monuments, private property corners, and forest boundary markers.
- Condition 16: Consult with the Forest Service prior to erecting signs related to safety issues on National Forest land covered by the license.
- Condition 17: If licensees proposes ground-disturbing activities on or directly affecting National Forest land that were not specifically addressed in FERC's NEPA processes, licensees, in consultation with the Forest Service, shall determine the scope of work and potential for Project-related effects, and whether additional information is required to proceed with the planned activity.
- Condition 18: The licensees shall adhere to the Road Maintenance Agreement (RMA). If the RMA is not executed, is terminated or the licensees are in default of the RMA, then the licensees shall comply with the measures outlined in Condition 18
- Condition 19: The United States shall have unrestricted use of any road over which licensees has control within the project area for all purposes deemed necessary and desirable in connection with the protection, administration, management, and utilization of Federal lands or resources.

- Condition 20: Confine all vehicles being used for project purposes, including but not limited to administrative and transportation vehicles and construction and inspection equipment, to roads or specifically designed access routes, as identified in the Transportation Management Plan (Condition No. 59) or as defined in Condition No. 18 - Use of National Forest System Roads for Project Access.
- Condition 21: Implement the Hazardous Materials Management Plan for locations on, or directly affecting, National Forest land.
- Condition 22: Pesticides may not be used on National Forest lands or in areas affecting National Forest lands to control undesirable woody and herbaceous vegetation, aquatic plants, insects, rodents, non-native fish etc... without the prior written approval of Forest Service.
- Condition 23: Within 60 days of planned ground-disturbing activity on or affecting National Forest lands, Licensees shall file with FERC a 'Safety During Construction Plan' that identifies potential hazard areas and measures necessary to address public safety. Licensees shall perform daily (or on a schedule otherwise agreed to by Forest Service in writing) inspections of Licensees' construction operations on National Forest lands and Licensees adjoining property while construction is in progress.
- Condition 24: Licensees shall not place construction equipment on National Forest lands prior to actual use or allow it to remain on National Forest lands subsequent to actual use, except for a reasonable mobilization and demobilization period agreed to by Forest Service.
- Condition 25: If during the term of the License FERC determines that the Project involves the use of any additional National Forest lands, outside the current Project boundary, Licensees shall obtain a special use authorization from Forest Service for the occupancy and use of such additional National Forest lands.
- Condition 26: Forest Service reserves the right to modify the 4(e) conditions, if necessary, to respond to any Final Biological Opinion issued for this Project by the National Marine Fisheries Service, United States Fish and Wildlife Service; or any Certification issued for the Project by the State Water Resources Control Board.
- Condition 27: Provide annual employee environmental awareness training for hydropower operations and maintenance staff.
- Condition 28: Prepare a biological evaluation prior to taking any action to construct new project features on National Forest land that may affect Forest Service special-status species or their critical habitat.
- Condition 29: Annually review special-status species lists and assess, in consultation with Forest Service, the potential for project-related effects on newly listed species or special-status species detected during project construction, operation, or maintenance.
- Condition 30: Determine the water year type for minimum streamflow compliance based on the DWR (Bulletin 120) Forecast of Total Unimpaired Runoff in the Feather River at Oroville for the water year.
- Condition 31: Meet the minimum streamflows in specified reaches by month and water year type (See Table 1 in Forest Service final 4(e) conditions).
- Condition 32: Cease diverting flows from Bear Ravine into Milk Ranch Conduit at Milk Ranch Conduit Diversion No. 8, thus allowing for the unimpaired flow in Bear Ravine.
- Condition 33: Temporarily close two of the Milk Ranch Conduit Diversions if the year is a Wet water year (as defined in condition 30, Annual Determination of Water Year Type).
- Condition 34: Implement channel maintenance flows in Wet and Normal water years (as defined in condition 30) at Bucks Creek below Lower Buck Lake and Grizzly Creek below Grizzly Forebay.
- Condition 35: Manage spill at Grizzly Forebay and Lower Bucks Lake, coordinate managed spills with the Rock Creek-Cresta Project, and manage spill to protect the FYLF population in the Cresta Reach.
- Condition 36: Operate the project reservoirs so that Lower Bucks Lake is not drawn down below 4,966 feet, Lower Three Lakes is not drawn down below 6,050 feet, Middle Three Lakes

is not drawn down below 6,057 feet, Grizzly Forebay is not drawn down below 4,303 feet, and Bucks Lake is operated based on a month and water year type.

- Condition 37: Draw down the elevation of Lower Three Lakes to reach minimum pool by September 15 at a release of 9 cfs if the water surface elevation is at or below 6,072 feet; if above this level, initiate drawdown on or about August 15, and set the low-level outlet valve to release 9 cfs.
- Condition 38: Manage diversions along Milk Ranch Conduit for safety and aesthetics. Six diversion structures would be left inoperable (i.e., no longer diverting flows) and would be managed for safety and aesthetics by the licensees.
- Condition 39: Implement the Streamflow and Reservoir Gaging Plan for locations on, or directly affecting, National Forest land.
- Condition 40: Pass woody material at Bucks Lake, Lower Bucks Lake, and Grizzly Forebay dams during spill events and channel maintenance flows. If these events are not sufficient to pass woody material, the licensees may periodically mechanically remove woody material from the reservoirs.
- Condition 41: Implement the Gravel Augmentation Plan for locations on, or directly affecting, National Forest land.
- Condition 42: Implement the SNYLF Management Plan for locations on, or directly affecting, National Forest land.
- Condition 43: Implement the Aquatic Resources Monitoring Plan for locations on, or directly affecting, National Forest land.
- Condition 44: Develop a plan to manage AIS in waters within the project boundary within 1 year of license issuance. The AIS plan shall include Best Management Practices (BMPs) to prevent the introduction of AIS, early detection monitoring, and monitoring and management of existing populations of AIS.
- Condition 45: Implement the Integrated Vegetation Management Plan for locations on, or directly affecting, National Forest land.
- Condition 46: Evaluate, and upgrade if necessary, the transmission line for consistency with APLIC and implement other raptor protection measures within 2 years of license issuance.
- Condition 47: Implement the Bald Eagle Management Plan for locations on, or directly affecting, National Forest land.
- Condition 48: Limit the operating period for potentially disruptive project operations and maintenance activities to protect breeding osprey, including a protective buffer around active nests during the breeding season.
- Condition 49: Conduct periodic northern goshawk and California spotted owl nesting surveys to determine changes to nesting locations within existing territories and/or establishment of new territories.
- Condition 50: Limit project-related activities during the California spotted owl and northern goshawk breeding seasons within the vicinity of active nests during their respective breeding seasons.
- Condition 51: Limit project-related activities during the willow flycatcher breeding season within 350 feet of suitable nesting habitat during the breeding season.
- Condition 52: Consult with a bat biologist prior to significant structural modifications and vegetation management activities.
- Condition 53: Consult with a bat biologist prior to loud/vibration activities along Three Lakes Road or at Three Lakes Dam.
- Condition 54: Inspect project tunnels for bats prior to initiating operations and maintenance activities in winter and develop appropriate protective measures.
- Condition 55: Implement the Recreation Management Plan for locations on, or directly affects National Forest lands.
- Condition 56: Implement the Shoreline Management Plan for locations on, or directly affects National Forest lands.

- Condition 57: Consult with the Forest Service prior to painting the exterior of project structures during routine maintenance or initial construction.
- Condition 58: Implement the Historic Properties Management Plan (HPMP) for locations on, or directly affecting, National Forest land.
- Condition 59: Implement the Transportation Management Plan for locations on, or directly affecting, National Forest land.
- Condition 60: Implement the Erosion Management Plan for locations on, or directly affecting, National Forest land.
- Condition 61: Implement the Fire Prevention and Response Plan for locations on, or directly affecting, National Forest land.
- Condition 62: In the event of extremely dry conditions develop an operational proposal to temporarily implement the Critically Dry water year instream flow release schedule (condition no. 31) at compliance points.
- **State Water Board Water Quality Certification Conditions**
 - Condition 1: Provide minimum instream flows below project diversions. These would likely be specified by location, month and water year type.
 - Condition 2: Comply with State Water Board water year type determination guidelines.
 - Condition 3: Close Milk Ranch Conduit Diversion during wet water years. Operation of the diversion would differ depending on water year type.
 - Condition 4: Develop a drought management plan to protect beneficial uses of water when minimum pool targets for project reservoirs or minimum instream flow requirements cannot be achieved.
 - Condition 5: Manage large woody material at Bucks Lake, Lower Bucks Lake and Grizzly Forebay to allow material to be passed below the impoundments. This could occur during spill events, channel maintenance flows, or through mechanical removal of material from the reservoirs.
 - Condition 6: Implement ramping rate and spill management criteria to minimize project-related fluctuations in affected river reaches (e.g., below Grizzly Forebay and Lower Bucks Dam). Coordinate spill management with the Rock Creek-Cresta Project.
 - Condition 7: Adopt minimum reservoir operating levels. Any minimum reservoir condition would be designed to maximize recreational opportunities and satisfaction, protect aquatic resources and allow flexible power generation.
 - Condition 8: Implement Three Lakes Reservoir drawdown schedule to balance brook trout spawning (*Salvelinus fontinalis*), recreational interests and power generation.
 - Condition 9: Formalize an Ecological Consultation Group specific to the Bucks Creek project. The group should meet annually at a minimum to discuss license implementation, monitoring and maintenance activities, and allow an opportunity for the public to comment on project activities.
 - Condition 10: Develop an erosion and sediment control plan designed to minimize and avoid undesirable erosion conditions near project streams and reservoirs.
 - Condition 11: Develop an aquatics resource monitoring plan to protect the beneficial uses of project waterways and ensure the underlying assumptions of any water quality certification over the life of a new FERC license. The plan should address water temperature, water quality, large woody material, stream channel morphology, fish and amphibian populations, and benthic macroinvertebrates.
 - Condition 12: Develop a SNYLF management plan in consultation with U.S. Fish and Wildlife Service (FWS), Forest Service, California DFW, and the Water Board. This plan most likely would include BMPs for operations and maintenance activities in designated critical habitat within the project boundary.
 - Condition 13: Provide annual notification to the Water Board regarding plans to stock fish in project waters (timing, location, weight, etc.).

- Condition 14: Develop a gaging plan, including plan objectives, gage locations, operations and maintenance protocols, data collection protocols, and information that will be included in annual reports.
- Condition 15: Develop a recreation management plan describing existing and proposed recreation facilities and measures to protect water quality and beneficial uses of the surface waters during construction and maintenance activities associated with recreational facilities
- Condition 16: Develop a road management plan (RMP) that describes the protection, maintenance, and construction of project roads in a manner that protects water quality.
- Condition 17: Develop a gravel augmentation plan to include potential augmentation locations to be finalized in consultation with relicensing participants, timing of pre- and post-augmentation monitoring, and reporting and consultation.
- Condition 18: Develop an AIS management plan. The goal of this plan is to establish a framework with specific activities to minimize the spread and impact of AIS on native fauna and habitats.
- Condition 19: Manage inactive diversions of Milk Ranch Creek to minimize project-related erosion. The licensees should seal or otherwise render these diversions permanently inoperable.
- Condition 20: Comply with the State Water Board's General Permit and amendments thereto (Water Quality Order 2009-0009-DWQ and National Discharge Elimination System No. CAS000002, as amended by Order No. 2010-0014-DWR and Order No. 2012-0006-DWQ).
- Condition 21: Develop all plans or changes to plans required by the water quality certification or related to water quality in consultation with relevant stakeholders. Provide relevant state and federal agencies with a minimum 30-day comment period on the plans and draft report, if applicable.
- Condition 22: Comply with all water quality certification conditions including monitoring, enforcement and potential future revisions.

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3.0 PROPOSED PROJECT AND ALTERNATIVES

The proposed Project analyzed in this Draft CEQA Supplement is the continued operation and maintenance of the Bucks Creek Project under a new license. The new license would consist of: a) modifications to existing Project facilities, and adjustment of the Project boundary as described in the licensees' applications to FERC, b) protection, mitigation, and enhancement measures (PM&E measures) proposed by the licensees, c) FERC Staff recommended modifications of the licensees' proposal and additional measures (see *Staff Alternative*, below), and d) all mandatory terms and conditions. Mandatory terms and conditions are those required by the Forest Service under section 4(e) of the Federal Power Act (Forest Service 2019) and all the terms and conditions required in the State Water Board's future decision on section 401 certification of the Project (State Water Board 2018). Together these components comprise the whole of the Project expected to be implemented under the new license and reflect the license that the City is expected to be requested to review for adoption. As described in Section 4.3, Level of Significance Summary, the Project would not have a significant effect on the environment and, therefore, no analysis of additional alternatives is required under CEQA (CEQA Guidelines §15064 and 15126.6).

The alternatives presented in this section are those alternatives considered by FERC in its environmental analysis (DEIS and FEIS). The differences among the Project alternatives analyzed by FERC concern the exclusion, inclusion or modification of eight environmental measures (out of 39 environmental measures), and an adjustment to the licensees' proposed Project boundary. These measures are associated with annual employee training requirements, Forest Service consultation requirements, establishment of an Ecological Consultation Group, methodology for determining the water year, aquatic resource monitoring requirements, best practices for raptor protection, development of a drought management plan, and qualifications of personnel associated with SNYLF monitoring and rescue. In addition, FERC recommends revising the Project boundary after construction to fully encompass recreation facilities proposed to be modified and created as part of the new license (Lower Bucks Lake Campground and the Bucks Lake Shoreline Trail).

Alternatives Analyzed by FERC

FERC's FEIS evaluated the licensees' proposal as described in the FLA and Supplement to the FLA, and the following three alternatives: (1) No-Action Alternative; (2) Staff Alternative; and (3) Staff Alternative with Mandatory Conditions. FERC uses the "no-action" alternative to establish baseline environmental conditions for comparison with other alternatives. FERC selected the Staff Alternative as the preferred option. The licensees' proposal and each of the alternatives FERC considered are summarized below:

Licensees Proposal: The licensees' proposal is summarized in Section 2.2 of this document. The licensees do not propose any activities that would involve major construction or changes in power generation facilities or operations. The licensees propose modifications to the Bucks Lake Dam flow release structure, to the Milk Ranch Conduit, to Project recreation facilities, and to the Project boundary, and also propose 37 environmental measures (PM&E measures) that would be implemented with the new license. These 37 environmental measures include implementation of 13 management plans. These measures and management plans were developed as part of the ILP process in consultation with relicensing participants including local, state and federal agencies and Native American tribes.

No-Action Alternative: As described in the FERC FEIS: "Under the no-action alternative, the Bucks Creek Project would continue to operate as required by the current project license (i.e., there would be no change to the existing environment). No new environmental protection, mitigation, or enhancement measures would be implemented." This "no action" alternative is substantively equivalent to the "no project" alternative under CEQA.

Staff Alternative: The FERC Staff Alternative includes all of the components of the *Licensees Proposal* with the following exclusions, modifications and additions. The FERC Staff Alternative does not include the three General Measures (GEN-1, GEN-2 and GEN-3) proposed by the licensees (see Section 2.2). In addition, and as described in the FERC FEIS, Section 2.3, Staff Alternative, the FERC Staff Alternative recommends modifications to three of the licensees' proposed PM&E measures (WR-

7, AR-2, and TR-5), proposes two additional measures, and recommends a Project boundary adjustment. These modifications and adjustments are as follows:

1. Modify the proposed annual determination of water year type (WR-7) to also provide the results to FWS, Water Board, and California DFW, in addition to Forest Service and FERC.
2. Modify the proposed Aquatic Resources Monitoring Plan (AR-2) to include only monitoring of gravel in Bucks Creek downstream of Lower Bucks Lake Dam spillway and in Grizzly Creek downstream of the Grizzly Creek gaging weir because only the proposed gravel monitoring would evaluate a project effect and determine the need for additional gravel augmentation.
3. Develop an avian protection plan that outlines the design of any proposed modifications to the project transmission line to protect birds from electrocution or collisions that may result from the licensees' review of existing facilities (TR-5).
4. Develop a drought management plan that defines drought conditions based on available data specific to the project, rather than regional or state-wide proclamations, to ensure modifications to operations during extended low-water periods are only implemented as necessary and in a manner that protects aquatic resources.
5. Implement measures concerning qualification of biologists conducting monitoring and surveys or handling SNYLF and amphibian rescue during road maintenance, reporting, and decontamination protocols (BO condition 1).
6. Revise the project boundary after construction to include the area from the proposed location of the Bucks Lake Shoreline Trail to the shoreline of Bucks Lake and to fully encompass the relocated Lower Bucks Lake Campground, because the trail and campground would be part of the licensees' recreation facilities that support public access to the project.

FERC's FEIS, Section 5.1, Comprehensive Development and Recommended Alternative, provides an overview of FERC's rationale for selecting this alternative as the recommend alternative. In summary, the FERC Staff Alternative is recommended by FERC because: "(1) issuance of a new hydropower license by the Commission would allow the licensees to operate the Project as an economically beneficial and dependable source of electrical energy for its customers; (2) the 85-MW electric capacity comes from a renewable resource that does not contribute to atmospheric pollution, including greenhouse gases; (3) the public benefits of this alternative would exceed those of the no-action alternative; and (4) the proposed and recommended measures would protect and enhance fish and wildlife resources, and would improve recreation opportunities at the project" (FERC FEIS, Section 5.1, Comprehensive Development and Recommended Alternative).

Staff Alternative with Mandatory Conditions: The FERC Staff Alternative with Mandatory Conditions is, as its title indicates, the Staff Alternative with the addition of the Forest Service final 4(e) conditions and State Water Board section 401 certification conditions that would otherwise be excluded under the Staff Alternative. As described in the FERC FEIS, Section 2.4, Staff Alternatives with Mandatory Conditions, these measures are:

1. annual consultation with the Forest Service [4(e) condition 1 – equivalent to licensee proposed PM&E measure GEN-2];
2. organizing an Ecological Consultation Group and hosting meetings [4(e) condition 2, preliminary section 401 certification condition 9 – equivalent to licensee proposed PM&E measure GEN-3];
3. annual employee training [4(e) condition 27– equivalent to licensee proposed PM&E measure GEN-1];
4. preparation of biological evaluations for any new project features on NFS land [(4(e) condition 28];
5. annual review of special-status species lists and assessment of new species [4(e) condition 29]; and
6. aquatic resources monitoring [4(e) condition 43, preliminary section 401 certification condition 11 – equivalent to licensee proposed PM&E measure AR-2].

Comparison of Project Alternatives and the Proposed Project

The differences among the project alternatives analyzed by FERC are limited to the implementation details of the specific environmental measures and boundary adjustment described above. All of the project alternatives would improve conditions compared to the no-action alternative as a result of implementing environmental measures intended to protect or enhance environmental resources. The differences among the project alternatives would not impact proposed Project operation or facility modifications, and would not, overall, change any of the significance determinations for any resources under CEQA.

Though FERC identified the Staff Alternative as its recommended alternative, the Project expected to be licensed (which is the Project analyzed in this CEQA Supplement) is the FERC Staff Alternative with all mandatory conditions.¹⁴ As shown above, the three licensee-proposed PM&E measures that FERC excludes in its Staff Alternative are also Forest Service final 4(e) conditions, and therefore would be included in the license. Likewise, though under the FERC Staff Alternative the licensee-proposed PM&E measure associated with aquatic monitoring (AR-2) would be limited to only gravel monitoring, Forest Service final 4(e) Condition 43 requires implementation of the aquatic resources monitoring plan as reflected in the original PM&E measure (without FERC modifications), and would thus also be included in the new license. The FERC proposed environmental measures: development of a drought management plan, assurances regarding the qualification of biologists handling and monitoring SNYLF, and development of an avian protection plan, are also anticipated to be included in the license. As such, the Project expected to be licensed, and as defined for the purpose of this CEQA analysis, contains the most comprehensive suite of measures to protect, avoid or enhance the environment, and thus may be considered the environmentally superior alternative.

¹⁴ Though the FERC Staff Alternative does not include all of the mandatory conditions submitted by the Forest Service and State Water Board, these conditions are, nonetheless, expected to be implemented as part of the new license consistent with federal court case law interpreting Section 4(e) of the Federal Power Act (See, e.g., Escondido Mutual Water Co. v. La Jolla Band of Mission Indians, 466 U.S. 765, 770, 1984). FERC itself recognizes as much and states in the introduction to Appendix B, Draft License Conditions Recommended by Staff of the FEIS: “We recognize, however, that the Commission is required to include valid 4(e) conditions in any license issued for the project. As such, the Forest Service conditions that we do not recommend would be included in a new license.”

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4.0 ENVIRONMENTAL ANALYSIS

Pursuant to CEQA Guidelines, the scope of the environmental analysis in this Draft CEQA Supplement is intended to augment the analysis completed in FERC's EIS by identifying potential impacts to environmental resources from implementation of the Project that were not adequately evaluated in the EIS or described in sufficient detail in other parts of the publicly accessible project record. More specifically, the CEQA environmental analysis herein supplements the independent NEPA analyses completed by FERC in the following ways:

- Evaluates the resource areas where NEPA analyses were absent or inadequate to meet CEQA requirements.
- Evaluates other CEQA considerations, including growth-inducing effects.
- Determines the level of significance for all impacts identified for CEQA resource areas.

The analysis in this section, consistent with NEPA and CEQA regulations [(Council on Environmental Quality NEPA Regulations 40 C.F.R. §1502.21 and CEQA Guidelines, §15150, subdivision (a)], references and summarizes information from other publicly available documents, especially the FERC FEIS, and in some cases the Final License Application (FLA) or Supplement to the FLA, and the FLA-associated Management Plans and Technical Memoranda. Relicensing documents associated with the Bucks Creek Project, including the FLA, Supplement to the FLA, the 13 final management plans and the DEIS and FEIS are available on the Bucks Creek Relicensing website: <http://www.bucksrelicensing.com/Public>.

4.1 Resource Areas Not Supplemented in this Document

The following environmental resources, categorized and organized in alignment with the 2019 CEQA environmental checklist (Appendix G of the 2019 CEQA Guidelines), are not discussed in this supplemental analysis because the City determined they were evaluated adequately in the FERC EIS.

- Aesthetics
- Biological Resources
- Cultural Resources
- Geology and Soils
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Recreation
- Tribal Cultural Resources
- Cumulative Impacts associated with the above resources

CEQA adequacy was determined by considering whether the resource impact discussion within the EIS was sufficient to establish a significance determination under CEQA of either “no impact” or “less than significant impact” for each resource in the 2019 CEQA environmental checklist (Appendix G of the 2019 CEQA Guidelines). Table 4.3-1 (in Section 4.3) summarizes the significance impact finding for each of these CEQA resource areas.

4.2 Resource Areas Requiring Further Analysis to Meet CEQA Requirements

The following resource areas included in the 2019 CEQA environmental checklist (Appendix G of the 2019 CEQA Guidelines) were either found to be absent from the FERC FEIS or determined to be insufficiently analyzed therein to meet the requirements of CEQA.

- Agriculture and Forest Resources
- Air Quality
- Energy

- Greenhouse Gas Emissions
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Transportation
- Utilities and Service Systems
- Wildfire
- Cumulative impacts associated with the above resources

Sections 4.2.1 through 4.2.11 discuss in detail the potential environmental impact of the Bucks Creek Project to each of these resource areas. In particular, the impact analysis considers resource impacts associated with construction of new or modification of existing Project recreation and transportation facilities, as the EIS did not adequately evaluate Project impacts from these construction activities under CEQA. For each resource area, the impact analysis compares Bucks Creek operation and maintenance activities under the existing license (referred to as the No-Action Alternative in FERC's EIS) with Bucks Creek operation and maintenance activities under the new license conditions. These new license conditions are those included and recommended by FERC in the FEIS (the Staff Alternative), plus all mandatory terms and conditions required by the Forest Service under section 4(e) of the Federal Power Act, and all anticipated conditions associated with the State Water Board's future decision on section 401 certification of the Project.

As a framework for the analysis, this CEQA Supplement uses the impact evaluation criteria set forth in the 2019 CEQA environmental checklist (Appendix G of the 2019 CEQA Guidelines). For each resource area, the environmental checklist is presented, followed by the environmental setting and a summary of the determination of significance. The following terminology is used to describe potential environmental impacts and thresholds of significance associated with the project:

- A finding of **no impact** is identified if the analysis concludes that the proposed project would not affect a particular environmental resource.
- An impact is considered **less than significant** if the analysis concludes that the proposed project would neither cause a substantial adverse change in the environment, nor potentially result in beneficial impact to the environment.
- An impact is considered **less than significant with mitigation** if the analysis concludes that the proposed project has the potential to cause a substantial adverse change in the environment, but proposed mitigation measures would reduce the potential impact to a less than significant level, as defined above.
- An impact is considered a **significant unavoidable impact** if the analysis concludes that the proposed project could cause a significant environmental effect that cannot be fully mitigated, notwithstanding implementation of mandatory license conditions and mitigation.

In summary, and as presented in the following analyses (sections 4.2.1-4.2.11), no potentially significant or significant unavoidable impacts were identified to any resource areas. The PM&E measures associated with the new license would protect, avoid and/or minimize any potentially significant impacts to a level of less than significant and no additional mitigation would be necessary.

4.2.1 Agriculture and Forest Resources

In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

	Significant Unavoidable Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	☐	☐	☐	☒
d) Result in the loss of forest land or conversion of forest land to non-forest use?	☐	☐	☐	☒
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland to non-agricultural use or conversion of forest land to non-forest use?	☐	☐	☐	☒

Environmental Setting

The Bucks Creek Project is located within Plumas County, California in the Sierra Nevada Mountains, and is entirely within the Plumas National Forest. Most of the land within the Project boundary is public land managed by the Forest Service, though PG&E has some inholdings (including the Haskins Valley Boat Launch and Campground). There is also a project access road that crosses an inholding parcel of another private owner. Development and activities on private land within Plumas County are subject to the provisions contained in the Plumas County General Plan (Plumas County 2013). The General Plan includes policies, objectives, principles and standards that guide land use decisions within the County. The General Plan Designation map shows that nearly the entire county is designated "Timber Resource Land," reflecting the forested nature of the County, with intermittent private parcels designated "Limited Access Rural Residential." Within the project vicinity, most privately owned parcels are in the immediate vicinity of Bucks Lake, where the General Plan designations are identified as: (1) Resort and Recreation; (2) Limited Access Rural Residential; and (3) Secondary Suburban Residential (Plumas County 2013). No agricultural land is included within the Project boundary. More detailed descriptions of the existing land use in the Project vicinity are provided in FERC's DEIS for the Project, Section 3.3.6, Land Use and Aesthetics.

Impact Analysis

The only forest resources that would be impacted by the Project are individual trees that may be identified for removal to complete specific recreation or transportation improvements, or individual trees and shrubs targeted

for removal in accordance with implementation of PG&E's 2020 Wildfire Mitigation Plan (WMP)¹⁵. The WMP calls for reducing wildfire ignition potential by, among other practices, maintaining 12 feet radial clearance around power lines, removing high risk trees in fall zones, removing overhangs out four feet from power lines and reducing dry fuel on a targeted basis. Removal of a limited number of trees to reconfigure or improve existing facility sites or to implement fire prevention best practices would not constitute a loss of forest land or conversion of forest land. No impacts to agriculture or forest resources would result from implementation of the Project. Implementation of the Project would not result in the loss or conversion of prime farmland, unique farmland, farmland of statewide importance, or convert forest land to another land use. The Project does not conflict with any existing agricultural use, forest land (timberland) zoning or a Williamson Act contract and would not result in any changes to the existing environment that would lead to conversion of farmland or forest land.

Level of Significance

Implementation of the new license conditions will have no impact on agriculture and forest resources.

¹⁵ Section 4.2.11, Wildfire, provides more detail on PG&E's WMP. Development and implementation of a Wildfire Mitigation Plan (WMP) is a public utility requirement mandated by the California Public Utilities Commission (CPUC) associated with California 2018 legislation (Senate Bill 901).

4.2.2 Air Quality

Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:

	Significant Unavoidable Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c) Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

Environmental Setting

The Project is in the western portion of Plumas County within the Mountain Counties Air Basin (MCAB). The MCAB is located along the northern Sierra Nevada mountain range, close to the Nevada border. Elevations within the MCAB range from over 10,000 feet at the Sierra crest down to less than 1,000 feet along the western edge of the basin. Air quality in Plumas County is managed by the Northern Sierra Air Quality Management District (NSAQMD). The Project is located along the western slope of the Sierra Nevada Mountains, entirely within the MCAB, in an area that is heavily forested and sparsely populated.

Climate and Meteorology

The climate in the vicinity of the Project varies significantly depending on elevation. The variability in the terrain creates a variety of microclimates with wide variations in rainfall, air temperature, and winds. Air temperature variations have an important influence on winds, dispersion, vertical mixing, and photochemistry. The Sierra Nevada receives large amounts of precipitation from storms moving in from the Pacific Ocean in the fall and winter, with generally lighter amounts from intermittent “monsoonal” moisture that flows from the south in the summer. Precipitation amounts generally increase with increasing elevation. Winter air temperatures often dip below freezing, and precipitation falls as rain or snow depending on elevation. In the summer, air temperatures in the western end of the MCAB routinely exceed 100 degrees Fahrenheit (°F) with much cooler temperatures found at higher elevations to the east.

The geography of the western slopes of the Sierra Nevada Mountains has a significant influence on air quality in the basin. Both local emissions and emissions transported from more populated areas to the west and south can contribute to pollutant concentrations found in the MCAB. Mountain valleys can trap pollutants, especially during periods when regional winds are light and vertical mixing is reduced.

Ambient Air Quality Standards and Attainment Status

In accordance with the federal Clean Air Act (CAA), the U.S. Environmental Protection Agency (EPA) has established National Ambient Air Quality Standards (NAAQS) for six principal pollutants considered harmful to public health and the environment. These “criteria” pollutants include carbon monoxide (CO), ozone (O₃), particulate matter (PM₁₀ and PM_{2.5}), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), and lead (Pb). In California, the California Air Resources Board (CARB) is responsible for air quality management. CARB has established California Ambient Air Quality Standards (CAAQS) that are generally more stringent and include more pollutants than the NAAQS (see Table 4.2.2-1). Both the NAAQS and the CAAQS have been developed to protect human health and represent maximum acceptable concentrations of air pollution.

Table 4.2.2-1. Ambient Air Quality Standards

Pollutant	Averaging Time	CAAQS ^a	NAAQS ^b	
			Primary ^c	Secondary ^d
Ozone	1 hour 8 hours	0.09 ppm 0.070 ppm	-- 0.070 ppm	-- 0.070 ppm
Carbon monoxide (CO)	1 hour 8 hours	20 ppm 9.0 ppm	35 ppm 9 ppm	-- --
Nitrogen dioxide (NO ₂)	1 hour Annual Arithmetic Mean	0.18 ppm 0.030 ppm	0.100 ppm ^e 0.053 ppm	-- 0.053 ppm
Sulfur dioxide (SO ₂)	1 hour 3 hours 24 hours Annual Arithmetic Mean	0.25 ppm -- 0.040 ppm --	0.075 ppm ^f -- 0.14 ppm 0.030 ppm	-- 0.5 ppm -- --
Particulate matter less than 10 microns (PM ₁₀)	24 hours Annual Arithmetic Mean	50 µg/m ³ 20 µg/m ³	150 µg/m ³ --	150 µg/m ³ --
Particulate matter less than 2.5 microns (PM _{2.5})	24 hours Annual Arithmetic Mean	-- 12 µg/m ³	35 µg/m ³ 12 µg/m ³	35 µg/m ³ 15 µg/m ³
Lead ^g	30-day Average Calendar Quarter Rolling 3-month Average	1.5 µg/m ³ -- --	-- 1.5 µg/m ³ 0.15 µg/m ³	-- 1.5 µg/m ³ 0.15 µg/m ³
Visibility reducing particles (VRP) ^g	8 hours	^h	--	--
Sulfates	24 hours	25 µg/m ³	--	--
Hydrogen sulfide (H ₂ S)	1 hour	0.03 ppm	--	--
Vinyl chloride	24 hours	0.01 ppm	--	--
Notes: ppm = parts per million µg/m ³ = micrograms per cubic meter -- = No standard has been adopted for this averaging time ^a California Ambient Air Quality Standards for ozone, CO (except 8-hour Lake Tahoe), SO ₂ (1 and 24 hour), NO ₂ , and particulate matter (PM ₁₀ , PM _{2.5} , and VRP), are values that are not to be exceeded. All others are not to be equaled or exceeded. ^b National Ambient Air Quality Standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM ₁₀ , the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m ³ is equal to or less than one. For PM _{2.5} , the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. ^c Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health. ^d Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant. ^e To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 0.100 ppm. ^f To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 0.075 ppm. ^g CARB has identified lead and vinyl chloride as “toxic air contaminants” with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants. ^h Particles in sufficient amount to produce an extinction coefficient of 0.23 per kilometer due to particles when the relative humidity is less than 70 percent. Source: CARB 2019a				

The EPA and CARB designate regions that are meeting the air quality standard for a given pollutant as being in “attainment” for that pollutant. Regions that are not meeting the standard are designated as being in “nonattainment” for that pollutant. If a region is designated as nonattainment, emission reductions are mandated and a plan must be developed to demonstrate how the standard will be attained. Where insufficient data exist to make a designation, an area is deemed “unclassified”. Where a nonattainment area has achieved attainment or where an attainment area is at risk of becoming nonattainment, it can be classified as a “maintenance” area to initiate implementation of preventive measures. Table 4.2.2-2 lists the attainment status for Plumas County.

Table 4.2.2-2. Plumas County Federal and State Air Quality Attainment Designations

Attainment Status by Northern Sierra Air Quality Management District of State and Federal Air Quality Standards		
Pollutant	State Designation (CAAQS)	Federal Designation (NAAQS)
Ozone (O ₃)	Unclassified	<u>2015 O₃ Standard (70 ppb)</u> Unclassified/Attainment
PM ₁₀	Non-attainment	Unclassified
PM _{2.5} (Excluding Portola Valley)	Unclassified	<u>2012 Annual Standard (12µg/m³)</u> Unclassified/Attainment
		<u>2012 24-hour Standard (35µg/m³)</u> Unclassified/Attainment
CO	Attainment	Unclassified/Attainment
NO ₂ , SO ₂ , Pb, H ₂ S, visibility reducing particles, sulfates, and vinyl chloride	Unclassified/Attainment	Unclassified/Attainment

As identified on Table 4.2.2-2, Plumas County is designated unclassified or attainment for all NAAQS. For CAAQS, the area is designated nonattainment for PM₁₀ and attainment or unclassified for other pollutants (CARB 2019b, NSAQMD 2019). NSAQMD has implemented Rule 226 to reduce fugitive emissions of PM₁₀.

Thresholds of Significance

The Project is located within the jurisdiction of the NSAQMD. The NSAQMD implements air quality programs required by state and federal mandates and enforces rules and regulations based on air pollution laws. The NSAQMD developed draft Guidelines for Assessing and Mitigating Air Quality Impacts of Land Use Projects (NSAQMD 2019) as an advisory document to provide lead agencies, planners, and project applicants with uniform guidance for assessing air quality impacts in environmental documents.

NSAQMD's Guidelines include the following basic requirements for compliance with District/State rules and regulations that are applicable to the Project:

- **Preparation of a Dust Control Plan Pursuant to District Rule 226:** A dust control plan must be submitted to and approved by the Air Pollution Control Officer before topsoil is disturbed on any project where more than one (1) acre of natural surface area is to be altered or where the natural ground cover is removed. Several construction projects to be implemented during the new license period will disturb more than 1 acre and will remove natural ground cover. The Dust Control Plan requirement can be fulfilled by including clearly phrased and enforceable conditions in the General Notes and/or the Grading Plan for the project.

On small projects, "reasonable precautions", such as watering as necessary, must be taken to prevent dust emissions. On large projects, additional measures such as limits on areas actively disturbed or number of hours of ground disturbance may be required. The NSAQMD has developed standard, minimum dust control measures for inclusion in a Dust Control Plan. Below are dust control measures that would be applicable to this Project:

Standard Dust Control Plan Conditions

1. All material excavated, stockpiled, or graded shall be sufficiently watered, treated, or covered to prevent fugitive dust from leaving the property boundaries and/or causing a public nuisance. Watering during summer months should occur at least twice daily, with complete coverage of disturbed areas.
2. All areas with vehicle traffic shall be watered or have dust palliative applied as necessary to minimize dust emissions.
3. All on-site vehicle traffic shall be limited to a speed of 15 mph on unpaved roads.

4. All land clearing, grading, earth moving, or excavation activities on a project shall be suspended as necessary to prevent excessive windblown dust when winds are expected to exceed 20 mph.
 5. All material transported off-site shall be either sufficiently watered or securely covered to prevent it being entrained in the air, and there must be a minimum of six (6) inches of freeboard in the bed of the transport vehicle.
 6. Paved streets adjacent to the project shall be swept or washed at the end of each day, or more frequently if necessary, to remove excessive accumulations or visibly raised areas of soil which may have resulted from activities at the project site.
- **Asbestos Airborne Toxic Control Measure for Construction Operations:** The Statewide Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying and Surface Mining Operations (Asbestos ATCM), codified in the California Code of Regulations, Title 17, Section 93105, contains requirements for projects located in areas mapped as having, likely to have, or observed to have naturally occurring asbestos, ultramafic rock or serpentine. This Project is not located in such an area and therefore, the Asbestos ATCM would not apply (California Department of Conservation 1992).
 - **Asbestos Airborne Toxic Control Measure for Surfacing Applications:** The Statewide Asbestos Airborne Toxic Control Measure for Surfacing Applications (Surfacing ATCM), codified in the California Code of Regulations, Title 17, Section 93106, prohibits the use of material containing 0.25% asbestos or greater for surfacing of trails, playgrounds, pedestrian areas, roads, landscaping, parking lots, et cetera.
 - **Statewide Diesel ATCM requirements:** All on-road mobile, off-road mobile, portable and stationary diesel-powered equipment and vehicles must conform to CARB air toxic control measures for reducing diesel particulate matter emissions.

The NSAQMD's Guidelines also include Thresholds of Significance for NO_x, reactive organic gases (ROG), and PM₁₀ emissions generated by construction activities, mobile sources, residential heating, and miscellaneous residential activities. The thresholds are organized in three tiers. A project with emissions meeting Level A thresholds will require the most basic control measures. Projects with emissions in the Level B range would require more extensive control measures than projects with emissions that meet Level A thresholds. Projects which exceed Level C thresholds are determined to have significant impacts and would require the most extensive control measures. Table 4.2.2-3 provides the Thresholds of Significance established by the NSAQMD.

Table 4.2.2-3. NSAQMD Significance Thresholds

Level A Thresholds		
NO _x	ROG	PM ₁₀
<24 lbs/day	<24 lbs/day	<79 lbs/day
Level B Thresholds		
NO _x	ROG	PM ₁₀
24-136 lbs/day	24-136 lbs/day	79-136 lbs/day
Level C Thresholds		
NO _x	ROG	PM ₁₀
>136 lbs/day	>136 lbs/day	>136 lbs/day

Construction activities and routine operation and maintenance of Project facilities under the new license conditions have the potential to affect air quality. The following section describes the approach used to evaluate air quality impacts, followed by a summary of results and an impact determination under CEQA.

Construction Emissions Approach

Several construction projects will be implemented during the new license period to improve and/or maintain recreation facilities and roads within the Project area. Descriptions of these activities are provided in the Recreation Management Plan for the Project (PG&E and City of Santa Clara 2019a) and the Transportation Management Plan for the Project (PG&E and City of Santa Clara 2019b). Construction activities are planned over the course of a 20-year implementation period (with year one being the year in which the new FERC license is adopted). The Recreation Management Plan and Transportation Management Plan include schedules that list the activities planned for each of the license years. Because many of the activities are to occur several years in the future, detailed construction design information has not yet been generated. To estimate construction emissions from the activities, assumptions were developed addressing likely construction equipment, hours of use, and vehicle and haul truck trips. These assumptions were based on input provided by PG&E engineers in the fall of 2019¹⁶ and generally accepted construction practices. The types, quantities, and duration of use for equipment during any particular activity are subject to change based on more detailed design plans for the various improvements and modifications. A list of the construction information assumed for each project (including the type of construction equipment likely to be used, duration of operation, and year of operation) is provided in Appendix B.

Construction emissions generated by Project activities (excluding those from helicopters and boats) were calculated using the latest version of the California Emissions Estimator Model (CalEEMod version 2016.3.2). Helicopter emissions were estimated manually using emissions factors obtained from the Swiss Federal Office of Civil Aviation (FOCA) and Federal Aviation Administration (FAA). Watercraft (work boats) emissions were calculated using emissions factors obtained from CARB guidance (CARB 2012). Because detailed design information for the various Project activities has not yet been prepared, CalEEMod default values for several emission inputs were used including equipment horsepower and maximum equipment hours per day. Due to the rural location of the project and potential distance for construction material import and export, the haul trip distance was conservatively assumed to be 30 miles rather than the 20-mile default distance (the default distance in the CalEEMod). The worker trip distance however was kept at the default value (approximately 17 miles one way) based on the relative proximity of nearby small communities; Quincy is about 18 miles away from the Project area. The timing of individual construction activities within a given year is not specified in the Recreation Management Plan or Transportation Management Plan. All activities scheduled for a given year were assumed to start on June 1. While it is recognized that construction projects will likely be staggered during the construction season (assumed to be June – October), this assumption was used to generate the maximum overlap in construction equipment use and a worst-case estimate for maximum daily emissions.

Estimated maximum daily construction emissions, by year, and NSAQMD significance threshold levels are provided in Table 4.2.2-4.

¹⁶ PG&E, at the request of consultants working for the City of Santa Clara, provided details regarding implementation of the Recreation Management Plan and Transportation Plan including estimates of implementation timeline, construction equipment anticipated, and duration of each identified recreation and transportation construction project. This information is displayed in Appendix B.

Table 4.2.2-4. Estimated Maximum Daily Construction Emissions (lb/day)

Year	Pollutant					
	NOx		ROG		PM10	
	Emissions	NSAQMD Threshold Level	Emissions	NSAQMD Threshold Level	Emissions	NSAQMD Threshold Level
2021	24	B	3	A	3	A
2022	11	A	2	A	1	A
2023	94	B	12	A	6	A
2024	8	A	1	A	1	A
2025	84	B	11	A	7	A
2026	82	B	11	A	6	A
2027	45	B	7	A	3	A
2028	23	A	4	A	2	A
2029	63	B	9	A	5	A
2030	13	A	3	A	2	A
2031	55	B	15	A	12	A
2032	12	A	3	A	1	A
2033	6	A	2	A	1	A
2034	11	A	4	A	1	A
2035	20	A	7	A	2	A
2036	5	A	1	A	1	A
2037	2	A	1	A	1	A
2039	7	A	3	A	1	A
2040	20	A	6	A	2	A
Notes:						
1. Maximum daily emissions shown include construction equipment and vehicle trips from the CalEEMod summer report, and are also inclusive of helicopter and watercraft emissions.						
2. Emission values shown have been rounded up to the nearest pound per day.						

Construction Impacts

Emissions from Project construction have the potential to temporarily affect air quality. Impacts would occur from off-road construction equipment and on-road vehicle engine exhaust and fugitive dust generated from soil handling. A summary of construction equipment, construction duration, and emission calculations for each construction project is provided in Appendix B. Estimated maximum daily construction emissions and NSAQMD significance threshold levels are provided in Table 4.2.2-4. As shown, maximum daily construction emissions under the new license conditions would be well below all significance thresholds for criteria pollutants with the exception of NOx in 2021, 2023, 2025, 2026, 2027, 2029, and 2031. Maximum daily NOx emissions during those years exceed the Level A significance threshold but are within the Level B threshold. NSAQMD requires the following control measures for activities that are within the Level A and Level B thresholds. Only those control measures applicable to this Project are listed:

For all Significance Level Thresholds (A, B and C)

- Alternatives to open burning of vegetative material will be used unless otherwise deemed infeasible by the District. Among suitable alternatives are chipping, mulching, or conversion to biomass fuel.
- Grid power shall be used (as opposed to diesel generators) for job site power needs where feasible during construction.

For Classifications as Level B Threshold

- Controls specified above (a and b) shall be implemented.
- Temporary traffic control shall be provided during all phases of the construction to improve traffic flow as deemed appropriate by local transportation agencies and/or Caltrans.

e. Construction activities shall be scheduled to direct traffic flow to off-peak hours as much as practicable. Control measures a and b will be followed to the extent feasible. Due to the location of construction activities, it is assumed that diesel generators will be necessary for most of the work that will take place. Emissions from diesel generators have been incorporated into calculations of construction emissions. For control measures d and e, traffic control will be implemented to the extent practicable and/or through consultation with the local transportation agency. This expectation is consistent with planning provisions in the Transportation Management Plan which include submittal of annual road operation and maintenance schedules to the Forest Service that comply with Forest Service standards, specifications, Road Management Objectives (RMOs), BMPs and all state requirements (PG&E and City of Santa Clara 2019b).

Construction emissions will be temporary, intermittent, and will occur over a large area that is sparsely populated. For the purposes of an air quality assessment, sensitive receptors are facilities that house or attract children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants such as a school, day care facility, hospital or senior center. There are no such facilities near the Project; however single-family residences are located near some of the recreation project areas along the south side of Bucks Lake and the east end of Haskins Bay. Some of the residences are located less than 200 feet from a recreation project area. However, based on the size of the construction projects in these areas, the limited amount of construction equipment to be used at a given time, and the relatively short construction duration, construction emissions would not expose sensitive receptors to substantial emissions. In addition, the projects would not produce other emissions, such as those leading to odors, with the possible exception of localized odors from internal combustion engine exhaust during construction. Construction will be performed in accordance with all applicable regulations, including preparation of a dust control plan in compliance with District Rule 226 for fugitive dust and statewide diesel equipment requirements. As a result, the environmental effects on air quality and sensitive receptors associated with construction activities implemented under the new license are considered **less than significant**.

Operation and Maintenance Emissions Approach

Other than the activities detailed in the Recreation Management Plan and Transportation Management Plan, operation and maintenance of facilities under the new license are not expected to change. Emissions associated with activities in the Recreation Management Plan and Transportation Management Plan are evaluated as construction emissions as described above. No other emission generating activities from operation and maintenance are considered in this evaluation.

Operation and Maintenance Impacts

Because activities are not expected to change substantially, environmental effects on air quality associated with operation and maintenance activities implemented under the new license are considered **less than significant**.

Level of Significance

Overall, implementation of new license conditions will not conflict with or obstruct any air quality plan; will not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable federal or state ambient air quality standard; will not expose sensitive receptors to substantial pollutant concentrations; and will not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. Impacts associated with any emissions resulting from the implementation of the new license conditions are considered **less than significant**.

4.2.3 Energy

Would the project:

	Significant Unavoidable Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☐	☒

Environmental Setting

The Bucks Creek Project is an 84.8 MW project consisting of Bucks Creek and Grizzly Powerhouses owned by PG&E and the City of Santa Clara, respectively. The Bucks Creek Powerhouse generates an average of 223.6 gigawatt-hours (GWh) of energy annually, for an average capacity factor of 39.3 percent. The Grizzly Powerhouse produces an average of 47.4 GWh of energy annually, for an average capacity factor of 27.3 percent. In total, the Bucks Creek Project generates an estimated 271 GWh of energy annually. The existing project uses minimal energy for operation of project facilities (e.g., turbines and lighting), and some energy to power PG&E equipment and vehicles to operate and maintain the facility.

The applicable regulation pertinent to the Project's energy generation and use is the California Renewable Portfolio Standard. The Renewable Portfolio Standard (RPS) is a result of Senate Bill (SB) 1078, which was signed in 2002 and mandated that utilities - investor, municipal and publicly owned - deliver 20 percent of their electricity from eligible renewable energy sources by 2017. SB 107, passed in 2006, changed this mandate to 20 percent by 2010. SB X1-2, passed in 2011, extended the RPS procurement requirements to 33 percent by 2020. SB 350, passed in 2015, extended the RPS procurement requirements further to 50 percent by 2030; In 2018, Senate Bill (SB) 100 was signed into law which raises the RPS requirements to 60 percent by 2030 and 100 percent by 2045. Renewable energy sources that count toward RPS procurement requirements include solar, wind, biomass, geothermal, and small hydroelectric facilities (facilities that generate 30 MW or less).

Impact Analysis

The CEQA thresholds of significance related to energy focus on avoiding and reducing inefficient, wasteful and unnecessary energy consumption. As the Project is an energy generation project with minimal existing energy requirements to operate, and no new operational infrastructure with energy requirements, this impact analysis focuses on: 1) the energy requirements associated with implementation of the recreation and transportation modifications proposed under the new license, and 2) the relationship of the project to the RPS mandate.

Construction activities associated with implementation of the recreation and transportation modifications would primarily consume fuel and electricity for the operation of construction equipment and vehicle travel. Appendix B describes the types of equipment and anticipated duration of the construction activities associated with the recreation and transportation projects. Project equipment would comply with California and EPA Corporate Average Fuel Economy (CAFE) standards for vehicular fuel efficiency and greenhouse gas (GHG) emissions, and would therefore employ efficient engines and reduce unnecessary fuel consumption. In addition, though construction of facility improvements is anticipated to generate additional vehicle trips by workers commuting to construction sites, and by large trucks transporting heavy equipment and haul material, these construction-related VMT trips would be limited as described in Section 4.2.9, Transportation. Further, the vehicles used for travel to and from the Project would likely be registered in California and compliant with California and EPA CAFE standards.

Under this relicensing process, PG&E and the City of Santa Clara are not proposing to add capacity or make any major modifications to the project, however, the minimum in-stream flow requirements associated with the license conditions (including minimum instream flow releases at Milk Ranch Creek below Three Lakes, fixed flow releases at Milk Ranch Conduit Diversion Nos. 1 and 3, and down-ramp controllable spills at Grizzly Forebay Dam) would decrease average annual generation of the Project by approximately 10.8 GWh per year. As such, under the new license conditions the total annual average generation of the Project, 271 GWh, would decrease to 260.2 GWh, an approximately 4% decrease in generation (PG&E and City of Santa Clara 2018, Exhibit D, Statement of Project Cost and Financing). This reduction in energy generation would not conflict with the RPS mandate. PG&E has already met the RPS target to deliver 33 percent of its electricity from eligible renewable energy sources by 2020 in 2017 (three years ahead of schedule), and is forecasted to procure 50 percent of electricity sales from renewable energy sources by 2020 (CPUC 2018). Additionally, based on Silicon Valley Power's 2018 Integrated Resource Plan, the City is forecasting to exceed the annual RPS targets by a significant amount through 2024 with existing owned or contracted resources, and through 2038 will meet annual RPS targets through the use of existing owned, contracted resources, and prior year excess carryover. The Grizzly Powerhouse, with a 19.8 MW maximum capacity, contributes and would continue to contribute under the new license, to the City of Santa Clara's efforts to meet the RPS mandate, as it qualifies as a small hydroelectric facility that generates under 30 MW.

Level of Significance

The project would not result in potentially significant environmental impacts due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation. The project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. Impacts related to energy use are less than significant.

4.2.4 Greenhouse Gas Emissions

Would the project:

	Significant Unavoidable Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

Environmental Setting

Global climate change is the common nomenclature used to describe an increase in the average temperature of the Earth's atmosphere and oceans. The causes of global climate change have been linked to both natural processes and human actions, such as fossil fuel combustion. According to the Intergovernmental Panel on Climate Change (IPCC), increasing GHG concentrations have been largely responsible for human-induced global warming (IPCC 2007). The most common GHGs are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride (SF₆). The potential heat trapping ability of each GHG varies. To account for these differences, GHGs are defined by their global warming potential (GWP). This assessment is based on GWP values of 1 for CO₂, 25 for CH₄, and 298 for NO₂ (CalEEMod). In this analysis, GHGs are reported as carbon dioxide equivalents (CO₂e).

The Bucks Creek Hydroelectric Project is an 84.8 MW project consisting of Bucks Creek and Grizzly Powerhouses owned by PG&E and the City of Santa Clara, respectively. The project includes: a 4.2-mile-long, 115-kV Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. Under this relicensing process, PG&E and the City of Santa Clara are not proposing to add capacity or make any major modifications to the Project or its operations. The Project will include small changes to stream flows including providing minimum instream flow releases at Milk Ranch Creek below Three Lakes, fixed flow releases at Milk Ranch Conduit Diversion Nos. 1 and 3, and extended down-ramping of controllable spills at Grizzly Forebay Dam. The licensees estimated (Supplement to the FLA, Exhibit D, Section D.9) that these measures will decrease annual generation by approximately 10.8 GWh per year (PG&E and City of Santa Clara 2018). The Project also includes enhancements to existing recreational facilities and road improvement projects.

The electrical generation from hydroelectric projects is associated with minimal emissions of GHG. Hydroelectric reservoirs may emit GHGs through degassing or bubbling of CH₄, or diffusive flux of CO₂ and CH₄ due to degradation of organic matter inundated by the reservoir.¹⁷ This is typically a larger impact with new reservoirs that have recently inundated vegetation, and with tropical reservoirs as compared to temperate zone reservoirs. Emissions of CO₂ show a strongly declining trend with reservoir age, especially during the first 20 years of reservoir life and typically tailing off to relatively low levels after about 60 years. Given the age of the Project reservoirs, it is probable that GHG emissions are low and will continue to decline through the upcoming relicensing period. Temporary construction emissions of GHG would be intermittent and occur over a 20-year period. Construction-related emissions are quantified in the impact analysis of this section.

¹⁷ Modeling of hydroelectric reservoir GHG emissions is most comprehensively addressed by a tool that has been researched and developed since 2006 by UNESCO and participating partners, documented and available for download or use at this link: <https://g-res.hydropower.org/>. The site includes documentation and guidance documents. The tool was presented at HydroVision 2019 ("The G-Res Tool: A New Way to Assess GHG Emissions") and this analysis is based on it.

Relevant Plans, Policies and Regulations

In addition to the RPS mandate (described in Section 4.2.3, Energy, above) California has several legislative mandates requiring reductions in GHG emissions. These are:

- California Global Warming Solutions Act of 2006: Emissions Limit. Assembly Bill (AB) 32 required CARB to design and implement emission limits, regulations, and other measures such that statewide GHG emissions are reduced in a technologically feasible and cost-effective manner to 1990 levels by 2020.
- Executive Order S-3-05, signed in June 2005, required that GHG emissions be reduced to 2000 levels by 2010, reduced to 1990 levels by 2020, and reduced to 80 percent below 1990 levels by 2050.
- Executive Order B-30-15, signed in April 2015, adds an intermediate target (in addition to those in S-3-05) that requires GHG emissions be reduced to 40 percent below 1990 levels by 2030.
- Executive order B-55-18, signed in September 2018, requires that California achieve carbon neutrality by 2045.

In addition to these regulations, Plumas County and the City of Santa Clara address climate change and GHG emissions in jurisdictional planning documents. The 2035 Plumas County General Plan (Plumas County 2013) addresses climate change and identifies goals and policies developed for several General Plan elements which, when consolidated, serve as Plumas County's Climate Action Plan. Conservation and Open Space Element Goal 7.10 specifically addresses climate change and development of a Climate Action Plan that is consistent with regulations, including AB 32. In 2013, the City of Santa Clara adopted a Climate Action Plan (CAP) (Santa Clara 2013) to create a more sustainable, healthy, and livable community. The CAP includes emissions reduction goals of 15% below 2008 levels by 2020. Other emission reduction strategies include transitioning the City's energy utility, Silicon Valley Power (SVP), away from coal by 2020, and investing in large-scale renewable energy projects.

As of 2016, Santa Clara realized a 4.5% reduction of GHG emissions from 1990 levels (based on 2008 emissions data, deemed equivalent to 1990 levels). These emissions reductions have been achieved through multiple strategies, including clean and renewable energy resources, energy efficiency programs, water conservation, waste reduction, and transportation land use improvements (Santa Clara 2018). In addition, and as described in Section 4.2.3, in 2017 PG&E met the State's 2020 RPS target to deliver 33 percent of its electricity from eligible renewable energy sources (three years ahead of schedule), and is forecasted to procure 50 percent of electricity sales from renewable energy sources by 2020 (CPUC 2018). The City is forecasting to exceed the annual RPS targets by a significant amount through 2024 with existing owned or contracted resources, and through 2038 will meet annual RPS targets through the use of existing owned, contracted resources, and prior year excess carryover (SVP 2018). The Bucks Creek Hydroelectric Project supports the City's renewable energy generation portfolio.

*Impact Analysis***GHG Emissions Related to Construction**

GHG emissions associated with the Project would be limited to those associated with planned operation and maintenance activities and include those facility modification activities described in the Transportation Management Plan for the Project (PG&E and City of Santa Clara 2019b) and Recreation Management Plan for the Project (PG&E and City of Santa Clara 2019a). The schedule for these modifications is spread over a 20-year timeframe with a limited number of recreation facility and road improvements or modifications planned in any one year. For the purposes of this assessment and consistent with typical seasonal construction schedules, construction activities are assumed to be limited to the summer and early fall (June through October).

Project construction activities would result in a short-term, unavoidable increase in GHG emissions as a result of operation of fossil-fueled vehicles and equipment (Table 4.2.4-1). Table 4.2.4-1 summarizes the estimated construction-related GHG emissions from each of the transportation and recreation projects. The GHG emissions were estimated using the latest version of the California Emissions Estimator Model (CalEEMod

version 2016.3.2). Helicopter emissions were estimated manually using emissions factors obtained from the FOCA and FAA. Watercraft (work boats) emissions were calculated using emissions factors obtained from CARB guidance (CARB 2012). Emission calculations were based on the required construction equipment, construction schedule, construction equipment hours of use, and anticipated number of days of use (see Appendix B). Total estimated GHG emissions for the recreation and transportation projects combined over the 20-year period are estimated to be 3,200 metric tons (MT) of CO₂e.

Table 4.2.4-1. Estimated Construction GHG Emissions by Recreation and Infrastructure Modification Project

Recreation Projects	Total GHG (MT CO₂e)
Bucks Lake Inlet Parking signage	1.5
Grizzly Forebay Campground - Trail Maintenance	0.54
Grizzly Forebay Campground - Lockers	0.49
Grizzly Forebay Campground - Fuel Treatment	2.2
Grizzly Forebay Campground - Reconstruct	47
Grizzly Forebay Rec Area - Trail Maintenance	0.54
Grizzly Forebay Rec Area - Replace Bathroom	3.7
Grizzly Forebay Rec Area - Signage	2.7
Grizzly Forebay Rec Area - Reconstruct	6.8
Haskins Valley Campground - Food Storage	0.50
Haskins Valley Campground - Improvements	13
Haskins Valley Campground - Reconstruct	270
Haskins Valley Campground - Add Sites	17
Haskins Valley Campground - Add Electrical	3.5
Hutchins Group Campground - Reconstruct	280
Hutchins Group Campground - Trail	0.32
Indian Rock Day Use - Reconstruct	77
Indian Rock Day Use - Trails	0.38
Lower Bucks Campground - Add Capacity	270
Lower Bucks Campground - Add Electrical	0.89
Lower Bucks Day Use - Convert Campsites	13
Lower Bucks Day Use - Reconstruct	10
Mill Creek Campground - Reconstruct	130
Mill Creek Campground - Trail	0.42
Mill Creek Campground - Replace Water	6.0
Sandy Point Day Use - Trail and Parking	33
Sandy Point Day Use - Boat Launch	81
Sandy Point Day Use - Reconstruct	260
Sandy Point Day Use - Replace Water	6.0
Sundew Campground - Reconstruct	190
Sundew Campground - Replace Water	6.6
West End Cove Day Use - Trail	23

West End Cove Day Use - Reconstruct	54
Bucks Boat-In Campground - Demo	1.8
Bucks Boat-In Campground - Construct Sites	34
Bucks Boat-In Campground - Fuel Treatment	0.17
Total GHGs - All Recreation Projects	1800
Infrastructure Projects	Total GHG (MT CO2e)
Howell-Bunger valve	0.95
Gravel Augmentation Plan	0.43
Three Lakes Rd - Slope Stabilization	130
Three Lakes Rd - Gravel Resurfacing	0.29
Three Lakes Rd - Replace Pavement	0.58
Three Lakes Rd - Unplug Culverts	2.9
Three Lakes Rd - Ditches	150
Three Lakes Rd - Culvert Replacement	190
Three Lakes Rd - Culvert Outfall	0.26
Three Lakes Rd - Water Crossings	15
Bucks Penstock Rd - Slope Stabilization	33
Bucks Penstock Rd - Unplug Culverts	0.82
Bucks Penstock Rd - Ditches	10
Bucks Penstock Rd - Culvert Replacement	78
Grizzly Forebay Rd - Culvert Replacement	13
Grizzly Forebay Rd - Unplug Culverts	2.1
Grizzly Forebay Rd - Replace Pavement	9.4
Grizzly Communication Rds - Culvert Replacement	15
Grizzly Communication Rds - Unplug Culverts	0.23
Grizzly Powerhouse Intake Rd - Culvert Replacement	42
Grizzly Portal Rd - Culvert Replacement	31
Grizzly Portal Rd - Unplug Culverts	0.56
Grizzly Powerhouse Rd - Culvert Replacement	79
Grizzly Powerhouse Rd - Unplug Culverts	0.84
Grizzly Powerhouse Rd - Culvert Outfall	0.28
Haskins Valley Campground - Replace Pavement	110
Haskins Valley Campground - Ditches	7.1
Haskins Valley Campground - Unplug Culverts	0.85
Hutchins Group Campground - Reconstruct Entrance	2.8
Hutchins Group Campground - Dirt Resurfacing	29
Hutchins Group Campground - Culvert Outfall	0.53
Hutchins Group Campground - Replace Pavement	9.8
Lower Bucks Campground - Reconstruct Entrance	55

Lower Bucks Campground - Construct Roads	53
Lower Bucks Campground - Reconstruct Intersection	5.7
Mill Creek Campground - Resurfacing	31
Mill Creek Campground - Culvert Replacement	54
Mill Creek Campground - Unplug Culverts	0.63
Mill Creek Campground - Repave	34
Sundew Campground - Paving	28
Sandy Point Day Use - Replace Roadway	77
Sandy Point Day Use - Reconstruct	89
Sandy Point Day Use - Culvert Replacement	12
Sandy Point Day Use - Unplug Culverts	1.2
Sandy Point Day Use - Clear Vegetation	1.1
Total GHGs - All Infrastructure Projects	1400
Total GHGs - All Projects	3200

There are no state-established thresholds of significance for GHG emissions and the NSAQMD also has not established significance thresholds. For reference, total direct GHG emissions in Plumas County in 2005 were estimated to be 348,048 metric tons CO₂e (Sierra Business Council 2012). Short-term construction emissions from this project would add a total of 3,200 metric tons, or an average of 160 metric tons per year, to the county's CO₂e emissions over a 20-year period. Because emissions associated with construction (modification of transportation and recreation facilities) would occur over a 20-year period, not in a single year, the impact related to GHG emissions is negligible when evaluated on a year-to-year basis.

GHG Emissions Related to Operation and Maintenance

Implementation of the project would result in an estimated decrease of power of 10.8 GWh/year due to minimum instream flows requirements – a component of the new license conditions. This loss of power may need to be replaced by PG&E and the City of Santa Clara. Depending on the energy resources used to replace this power, the change in GHG emissions associated with implementation of the Project could range from approximately no change (if replaced with renewable sources or not replaced) to an increase of approximately 4,715 MT CO₂e/year if power is replaced with energy sources that emit GHGs (CARB 2014). Under this worst-emission case scenario the new license conditions would be associated with a potential increase in GHG emissions of approximately 0.16 percent (0.16%) from existing conditions based on estimates of PG&E's and the City's total annual CO₂e emissions¹⁸. However, this potential increase in GHGs would not jeopardize PG&E's or the City's compliance with RPS mandates and, given the licensees' compliance with or exceedance of these mandates, does not represent a significant impact.

Other negligible changes in operation and maintenance of the various reservoirs associated with the Project are planned during the licensing period, and no increase in GHG emissions associated with reservoir cycling is anticipated. As detailed in Section 4.2.9, Transportation, the improvements to Project campgrounds and day use facilities, including expanding parking capacity at some day use areas, and expanding overnight capacity at some campgrounds (e.g. Lower Bucks Lake Campground) would not cause an increase in visitation but would help accommodate projected increases in visitors over the next 20 years. The moderate increase in visitation

¹⁸ In 2018, GHG emissions from PG&E owned power generation facilities were 2,515,130 MT CO₂e (PG&E 2019) and in 2016 GHG emissions from City of Santa Clara owned power generation facilities were 517,247 MT CO₂e (City of Santa Clara 2018) for a combined total of approximately 3,029,377 MT CO₂e/year. 4,715 MT CO₂e/year is City of Santa Clara

expected over the twenty-year period (an estimate of an 18 percent increase from year 2016 to year 2036 according to studies conducted by PG&E and the City) would contribute only negligible GHG emissions and would not conflict with any applicable plans or policies.

Level of Significance

Implementation of the Project would not generate GHG emissions, either directly or indirectly, that would have a significant impact on the environment, and would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing emissions of GHGs. The Project's impacts related to GHGs are less than significant.

4.2.5 Mineral Resources

Would the project:

	Significant Unavoidable Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

Environmental Setting

The North Fork Feather River and its tributaries have been subject to gold mining since the mid-1800s and, according to the 2035 Plumas County General Plan (Plumas County 2013), gold and copper speculation contributes to the County's economy. As of November 2019 there were 17,330 mining claims documented within the Plumas National Forest, 1,723 of which remain active (Diggings™, 2019). Most of these mining claims are "placer" claims, as opposed to "lode" claims. Lode claims include rock-in-place bearing veins, or lodes, of valuable minerals having well-defined boundaries. Placer claims generally consist of unconsolidated materials such as sand and gravel containing free gold or other minerals. The maximum size of a placer claim is 20 acres.

In compliance with the California Surface Mining and Reclamation Act (SMARA), the California Division of Mines and Geology has established a classification system to denote both the location and significance of key extractive resources. Under SMARA, the State Mining and Geology Board may designate certain mineral deposits as being regionally significant to satisfy future needs. However, Plumas County is among those counties in California for which no classification of mineral resources has occurred and thus there is no California-established mineral land classification map for the Project area or vicinity. The State Mining and Geology Board has not designated any mineral deposits in Plumas County as being regionally significant to satisfy future needs (California Department of Conservation 2015).

Impact Analysis

There is no record of the Project vicinity serving as a resource for minerals of value to the region or the state beyond the small mineral extraction operations associated with placer claims. Implementation of the facility modifications, project boundary adjustments, and environmental measures associated with the hydroelectric relicensing project would not impede or interfere with the establishment or continuation of these existing mineral extraction operations and would not result in the loss of any known mineral resources.

Level of Significance

Project implementation will have no impact on mineral resources.

4.2.6 Noise

Would the project result in:	Significant Unavoidable Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	☐	☐	☐	☒
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	☐	☐	☒	☐
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒
f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	☐	☐	☐	☒

Environmental Setting

The Project area and vicinity of this relicensing project is predominantly National Forest land with limited development. Existing ambient noise levels are primarily from environmental factors (e.g., water, wind), existing electrical and hydroelectric facilities, transportation sources (e.g., personal vehicles, trucks), and recreational activities. Noise from recreation activities is greatest in the summer, during the peak of the recreational season. Recreational facilities in the vicinity are associated with Bucks Lake, Lower Bucks Lake, the Grizzly Forebay and Three Lakes and include campgrounds for overnight visitors, boat ramps, day use areas and commercial facilities. Most of these facilities are located around Bucks Lake and are most dense along its western and southern shoreline. The only private residences in the project vicinity are those affiliated with the Bucks Lake community located along the western and southern edges of Bucks Lake composed of approximately 300 homes (Bucks Lake Fire Department 2019). Residences are mostly second homes accessed most often during the summer. The Plumas County General Plan (Plumas County 2013) describes the area as a “rural place” and identifies the prominent source of noise for the Bucks Lake community as motorized watercraft.

Noise-sensitive land uses are generally considered to include those uses where noise exposure could result in health-related risks to individuals, as well as places where quiet is an essential element of their intended purpose. Residential dwellings are of primary concern because of the potential for increased and prolonged exposure of individuals to both interior and exterior noise levels. Additional land uses such as parks, schools, historic sites, cemeteries, and recreation areas are also generally considered sensitive to increases in exterior noise levels. Those noted above are also considered vibration-sensitive land uses in addition to commercial and industrial buildings where vibration would interfere with operations within the building, including levels that may be well below those associated with human annoyance. Existing noise- and vibration- sensitive land uses in the vicinity of the Bucks Creek Project include the residences that comprise the Bucks Lake community, as well as the various recreation facilities. Visitors to the recreation facilities in the vicinity of the project, including boaters, campground users, and day users are also sensitive to increases in exterior noise levels and are considered potential sensitive receptors.

Relevant Plans, Policies and Regulations

The Noise Element (Chapter 3.0) of the Plumas County General Plan (Plumas County 2013) addresses potential noise-related issues within the County, as well as methods of limiting noise exposure to communities and natural resource areas. The goal in the Noise Element of the General Plan is:

Noise Goal 3.1: To establish and maintain a quiet and healthy environment with land uses arranged and managed to reduce annoyance and complaints and minimize the exposure of community residents to excessive noise.

Policies described in the General Plan in support of this goal include protection of noise-sensitive land uses and include reference to what level of noise, measured in A-Weighted Decibel (dBA), is normally acceptable for various land uses. A-Weighted Decibel is an overall frequency-weighted sound level in decibels that approximates the frequency response of the human ear. The Plumas County General Plan notes that normally acceptable daytime noise levels (L_{eq}) in industrial and commercial areas typically do not exceed 85dBA, whereas in residential areas normally acceptable noise exposures range between 55 and 70 dBA. Of relevance to this Project is County guidance that seeks to limit the potential noise impacts of construction activities on surrounding land uses and has set standards regarding the maximum allowable noise exposure within planning areas for construction noise. For residential areas this includes limiting construction of a project to between the hours of 7am and 7pm Monday through Friday and 8am and 5pm on weekends or on federally recognized holidays, and limiting the construction noise exposure during those times to a maximum instantaneous noise level (L_{max}) of 75dB for residential areas and of 90dB for commercial and public facilities (Plumas County General Plan 2013, Table 3-5, page 79).

Table 4.2.6-1. Plumas County General Plan - Maximum Allowable Construction Noise Exposure

Land Use Designation	Time Period	Noise Level (dB)	
		L_{eq}	L_{max}
Residential	7 am to 7 pm	55	75
	7 pm to 10 pm	50	65
	10 pm to 7 am	45	60
Commercial and Public Facilities	7 am to 7 pm		90
Industrial	7 pm to 7 am		75
	Any Time		90
Any adopted community plan area should refer to the land use designations that most closely correspond to the General Plan land use designations for similar development.			
Source: Plumas County General Plan, Table 3-6 (Plumas County 2013)			

Impact Analysis

Noise and ground-borne vibrations associated with the Project are limited to those associated with planned construction activities and include those activities described in the Transportation Management Plan for the Project (PG&E and City of Santa Clara 2019b) and Recreation Management Plan for the Project (PG&E and City of Santa Clara 2019a). Because operational impacts will remain the same as under existing conditions, there will be no new noise impacts associated with long term operation of the Project under the new license. Construction activities include vegetation clearing along roads and transmission lines, road grading, modification of existing facilities, and construction of new project facilities. Contributing noise factors would include noise from site preparation, truck hauling of material, pouring of concrete and use of power tools, and would also include noise generated by heavy equipment (earthmovers, material handlers and portable generators) during the construction period. Some of these same activities may also cause random and/or transient ground-borne vibrations (such as the use of jackhammer to break up concrete pads and pavement). These construction-related noise and vibrations would occur intermittently and would vary depending upon the nature or phase of construction (e.g., demolition/land clearing, grading and excavation, and facility erection), and could reach high levels for brief periods. Outside of noise associated with construction activities, the project would not create any new permanent increases in ambient noise levels above existing conditions.

Facility operations and maintenance and recreational use of the area would be consistent with activities that occur now under the existing license.

The locations where construction activity would occur are mostly distant from any existing commercial facilities or residences. Among more than 16 Project facility sites where construction activity is planned there are only three sites where there are existing receptor structures (homes or businesses) within 400 feet of the planned construction activity. These three Project facility sites are:

- Haskins Valley Campground – closest receptor approximately 400 feet from planned construction activity;
- Indian Rock Day Use Area – closest receptor a minimum of 300 feet from planned construction activity; and
- West End Cove Day Use Area – closest receptor a minimum of 300 feet from planned construction activity.

All other exiting receptor structures are located more than 400 feet (and generally more distant) from any of the planned facility improvements and modifications. Recreational facilities undergoing substantive construction would be closed during construction activities. For example, during modification of the Indian Rock Day Use Area, the facility would be temporarily closed to the public.

As described in Section 4.2.2, construction activity would be limited to the dry months, generally June through October. Construction of all facility modifications would take place within Plumas County guidelines for construction activity: 7am to 7pm Monday through Friday and 8am to 5pm on weekends or on federally recognized holidays. The Bucks Creek Project Transportation Management Plan and Recreation Management Plan presents anticipated schedules for transportation and recreation improvements over a 20-year period, with Year One defined as the first year after FERC license issuance. Recreation and transportation improvement activities are spread over the 20-year timeframe with a limited number of recreation and transportation facility improvements or modifications planned in any one year. For example, in license year seven (approximately 2028 with an anticipated FERC license adoption in 2021) modifications to the Haskins Valley Boat Launch and Campground, and to the Lower Bucks Lake Day Use Area are the only planned recreation improvement activities. That same year, minor improvements are also planned along Three Lakes Road and Bucks Penstock Road (constructing roadside conveyance ditches with culverts).

The construction equipment associated with improvements to the recreation facilities near existing receptors is anticipated to involve machinery including loaders, pavers, bobcats, excavators and hand-held tools, such as chainsaws. A list of the loudest construction equipment that may be used for these project construction activities is shown in Table 4.2.6-1 with typical noise levels generated at 50 feet from the equipment (reference levels).

Table 4.2.6-2. Typical Noise Levels of Construction Equipment Generated at 50 Feet from Equipment

Type of Equipment	Typical Noise Levels (dB) Lmax at 50 feet
Loader	80
Excavator	81
Heavy Duty Truck	84
Paver	85
Compactor	80
Backhoe	80
Jack Hammer	88
Chainsaw	76
Notes: dB = decibels; Lmax = maximum instantaneous sound level Source: Construction equipment list based on Federal Highway Administration 2018, Table 7-1 (FTA 2018), adapted by EN2 Resources, Inc.	

As shown in the table, all of this equipment would exceed Plumas County's L_{max} for residential areas: 75dB. However, noise dissipates exponentially with distance from the source of noise, at a rate of between 6dBA for "hard sites" and 7.5dBA for "soft sites" for each doubling of distance from the reference measurement (FTA 2017). A "hard site" is a reflective surface such as concrete, asphalt or flat water. A "soft site" includes flat earth with ground-level absorptive vegetation. With the exception of lakes, the project area consists of mostly soft sites. Therefore, even if construction equipment, such as a jackhammer, is generating 89dBA of noise at 50 feet, at 100 feet the noise level would drop-off by a minimum of 7.5dBA, resulting in a noise level of 81.5dBA. At 200 feet the noise level would be 74dBA. This is a conservative estimate as this drop-off rate does not take into account additional dissipation that would be caused by trees or other barriers to sound travel. A noise level of 74dBA is below the 75dB daytime L_{max} threshold set by Plumas County for residential areas and, therefore, any facilities at least 200 feet from the site of proposed construction would not be exposed to construction noise that exceeds Plumas County guidance for allowable construction noise in residential areas. As there are no existing permanent sensitive receptors (homes or businesses) located less than 200 feet from any of the planned construction activities, noise associated with construction activity is a less than significant impact.

Construction activities could also result in ground-borne noises or vibrations. However, vibration source levels for most of the construction equipment associated with the proposed improvements would generate little or no ground vibration. The Federal Transit Administration (FTA) recommends a threshold of 0.2 inch per second peak particle velocity (PPV) for continuous sources of vibration (such as pile drivers) to avoid structural damage to non-engineered timber and masonry buildings, and a threshold of 0.3 inch per second PPV to engineered concrete and masonry structures (FTA 2018, Table 7-5). None of the equipment for any construction activity generates more than 0.1 inch per second PPV at 25 feet from the source (FTA 2018, Table 7-4) and, as ground-borne vibrations dissipate substantially with distance, there is unlikely to be any ground-borne vibration experienced even at the nearest receptor structures to construction activity. Therefore, ground-borne vibration impacts associated with construction activity would be less than significant.

Level of Significance

Implementation of the Project would not expose people to noise levels in excess of established applicable standards, would not expose people to generation of excessive ground-borne vibration or ground-borne noise levels, and would not create a temporary or permanent increase in ambient noise levels in the Project vicinity above existing conditions. The Project is not located within an airport land use plan or within the vicinity of an airstrip. The Project's impacts related to noise would be less than significant.

4.2.7 Population and Housing

Would the project:

	Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☐	☒
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

Environmental Setting

As described in the FERC EIS, the Project area and vicinity is rural area and sparsely populated. Land within the Project vicinity is primarily Plumas National Forest land with scattered private inholdings owned by PG&E and other private parties. Within the current FERC project boundary, land ownership consists of National Forest Land (1,539.5 acres), PG&E-owned land (1,601.2 acres), and private land (7.5 acres). Project facilities are all located on either public land or on private land owned by PG&E. Private lands not owned by PG&E within the Project boundary are associated with:

- a Project Road west of Grizzly Forebay that provides access to the Grizzly Forebay tunnel, spillway and the Grizzly Powerhouse 115-kV Transmission Line, and
- The Bucks Creek penstock, vent stacks, and penstock valve house (PG&E and City of Santa Clara 2016).

Plumas County General Plan designations for the Project area are focused around Bucks Lake where designations are identified as:

- (1) Resort and Recreation;
- (2) Limited Access Rural Residential; and
- (3) Secondary Suburban Residential (Plumas County 2013).

The approximately 300 homes (Bucks Lake Fire Department 2019) along the southern and western shores of Bucks Lake are defined as the Bucks Lake community. The 2010 census, which describes Bucks Lake community as a census designated place, identifies the population as 10, indicative of the community's composition of secondary residences.

Impact Analysis

Consistent with the default assumptions in the CalEEMod, we assume that project construction would involve approximately 1 to 2 workers per piece of heavy equipment, and therefore, between two and 19 workers are anticipated to be required per construction task.¹⁹ These tasks are associated with the recreation and transportation facility improvements, the implementation of which are spread out over a 20-year timeframe. Workers are assumed to be permanent residents of nearby communities (e.g. Quincy or Oroville) and or, temporarily housed by the contractor they work for while employed at the Project area. None of the Project activities would induce or encourage population growth in or near the Project area. None of the proposed new or improved recreation facilities are designed to be permanent living spaces, and the Project will not convert any non-residential zones to residential zones. The Project area is in a rural area with few residences, and none of the Project activities would result in the displacement of housing. The Project would have no impact to population/housing.

¹⁹ Equipment estimates for each facility improvement or modification are detailed in Appendix B, Construction Equipment Information and CalEEMOD outputs.

Level of Significance

The Project would have no impact to population/housing.

4.2.8 Public Services

	Significant Unavoidable Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
Fire protection?	☐	☐	☒	☐
Police protection?	☐	☐	☒	☐
Schools?	☐	☐	☐	☒
Parks?	☐	☐	☐	☒
Other public facilities?	☐	☐	☒	☐

Environmental Setting

The entire Project is within the boundaries of the Plumas National Forest. The Plumas County Office of Emergency Services (OES), headquartered in Quincy, CA (approximately 17 miles from Bucks Lake), provides for the planning and coordination of emergency response for all county departments and coordinates assistance from outside agencies when major disasters or emergencies occur.

Responding law enforcement agencies to the Project area could include:

- Forest Service law enforcement officers: The Forest Service provides law enforcement services related to natural and cultural resource protection, as well as fire suppression and prevention activities on National Forest lands within the Project area.
- Plumas County Sheriff's Office. The Sheriff's office is headquartered in Quincy and provides law enforcement for the entire County, including enforcement of laws related to life and property, and search and rescue services on both private and National Forest lands within the Project area.
- California Highway Patrol (CHP). CHP operates area offices in Susanville and Quincy and serves as the primary law enforcement agency for state facilities and transportation corridors (e.g., State Route 70) in the vicinity of the Project.
- California Department of Fish and Wildlife (CDFW) wardens. The Project is in CDFW's North Central Region (Region 2). CDFW wardens in Plumas County are responsible for enforcing laws pertinent to fish and wildlife, but may be called upon to enforce any of California's laws.

Responding fire protection agencies to the Project area could include:

- U.S. Forest Service: The Forest Service provides fire suppression and prevention activities on National Forest lands within the Project area.
- California Department of Forestry and Fire Prevention (CALFIRE). CALFIRE is responsible for wildland fire protection on all private lands in Plumas County. There are no CALFIRE stations in Plumas County.
- Bucks Lake Fire Department. The Bucks Lake Fire Department is a volunteer fire department located adjacent to the Project boundary at the intersection of Bucks Lake and Big Creek Road and Bucks

Lake Road. Bucks Lake Fire Department provides fire and emergency medical services to the local area in the summer.

- Other local fire departments in Plumas County. There are 20 local fire departments in the County.

During the summer fire season, all fire agencies in the County respond to any reported fire, regardless of legal jurisdiction. While the Forest Service is legally and financially responsible for managing wildland fires within its jurisdiction, volunteer fire departments are often the first to respond to wildfires or other incidents such as traffic accidents.

Impact Analysis

Impacts to public services associated with the Project would be limited to those associated with recreation improvements and modifications. The relicensing Project includes improving and replacing existing camping units, infrastructure, and other facilities over a 20-year timeframe. These improvements are anticipated to involve between two and 19 construction workers per task.²⁰ These improvements include moderate expansion of parking at some day-use facilities, and the addition of new overnight campsites at some existing campgrounds. While studies conducted by the licensees indicate that demand for recreation within the project boundary is estimated to increase by 18 percent from 2016 to 2036, this increase is not driven by or linked to any of the proposed recreation facility improvements. Rather, the projection is based on the estimated population changes in California and Nevada counties where most recreation users originate, and therefore is not a project impact. However, even if it was a Project impact, an 18 percent increase in visitation by 2036 would have a less than significant impact on the provision of any public services – including services associated with public health and safety, schools, or recreational facilities (e.g. parks). Any increase in demand on local emergency service providers associated with the Project, including police protection, medical services, and fire protection services, is expected to be minimal. Overall, existing service providers would be able to meet the needs of the local population and recreationists without the need for new or physically altered governmental facilities.

Level of Significance

The improvements, modifications and new construction associated with Project recreation and transportation facilities would not impede or increase response times for fire protection, police protection, or other public services, or require that any existing government facilities (including schools or parks) be built or altered. The Project would have a less than significant impact on all public services.

²⁰ This estimate is based on the assumption of 1.25 workers onsite per piece of heavy equipment. Equipment estimates for each facility improvement or modification are detailed in Appendix B, Construction Equipment Information and CalEEMOD outputs.

4.2.9 Transportation

Would the project:	Significant Unavoidable Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?	☐	☐	☐	☒
b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?	☐	☐	☒	☐
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☐	☒
d) Result in inadequate emergency access?	☐	☐	☒	☐

Environmental Setting

Roads in the area of the Bucks Creek Project include Forest Service roads, county roads, and some private roads. Access to the project from population centers is from the east or west along Bucks Lake Road (a county-maintained road). From the east, State Route (SR) 70 is the major highway from which to access Bucks Lake Road. From the west, motorists may access Bucks Lake Road via travel along SR 162, also known as the Oroville Quincy Highway. From SR 70 motorists turn west onto Bucks Lake Road in the city of Quincy, California (a census-designated place and the county seat of Plumas County) and then follow Bucks Lake Road for approximately 17 miles to reach the Bucks Lake Marina. Motorists headed northeast on SR 162/Oroville Quincy Highway from Oroville, California, connect to Bucks Lake Road south of Bucks Lake. Project recreation sites in Haskins Valley are reached via Bucks Lake Road. Other project recreation facilities are along secondary roads (Bucklin Road, Mill Creek Road, Three Lakes Road, Bucks Penstock Road, and Grizzly Big Creek Road) accessed from the Bucks Lake Road. Plumas County maintains the Bucks Lake Road, except during the winter, when visitors can use either snowmobiles or skis for access to the project recreation facilities. Secondary roads to the project recreation facilities are not plowed in winter; the county plows and reopens the road to highway vehicles when the weather warms, typically in late spring.

Plumas County's General Plan (Plumas County 2013) includes a Circulation Element (Chapter 4.0) to ensure that the transportation system in Plumas County adequately addresses the transportation issues and planned growth for the County through the year 2030. The General Plan notes that due to the relatively dispersed nature of development in the County that traffic congestion is not an issue, with the exception of "bell times" at some school area and some locations around Lake Almanor (approximately 60 vehicle miles north of the Project area) during the summer months. The Circulation Element of the General Plan also describes SR 70 in Quincy as the busiest highway in Plumas County with a peak-month (typically August) Average Daily Traffic (ADT) volume of 12, 200. The Circulation Element of the General Plan does not establish any plans or policies that are specific to Bucks Lake Road or to any of the roads or other facilities within the Project vicinity.

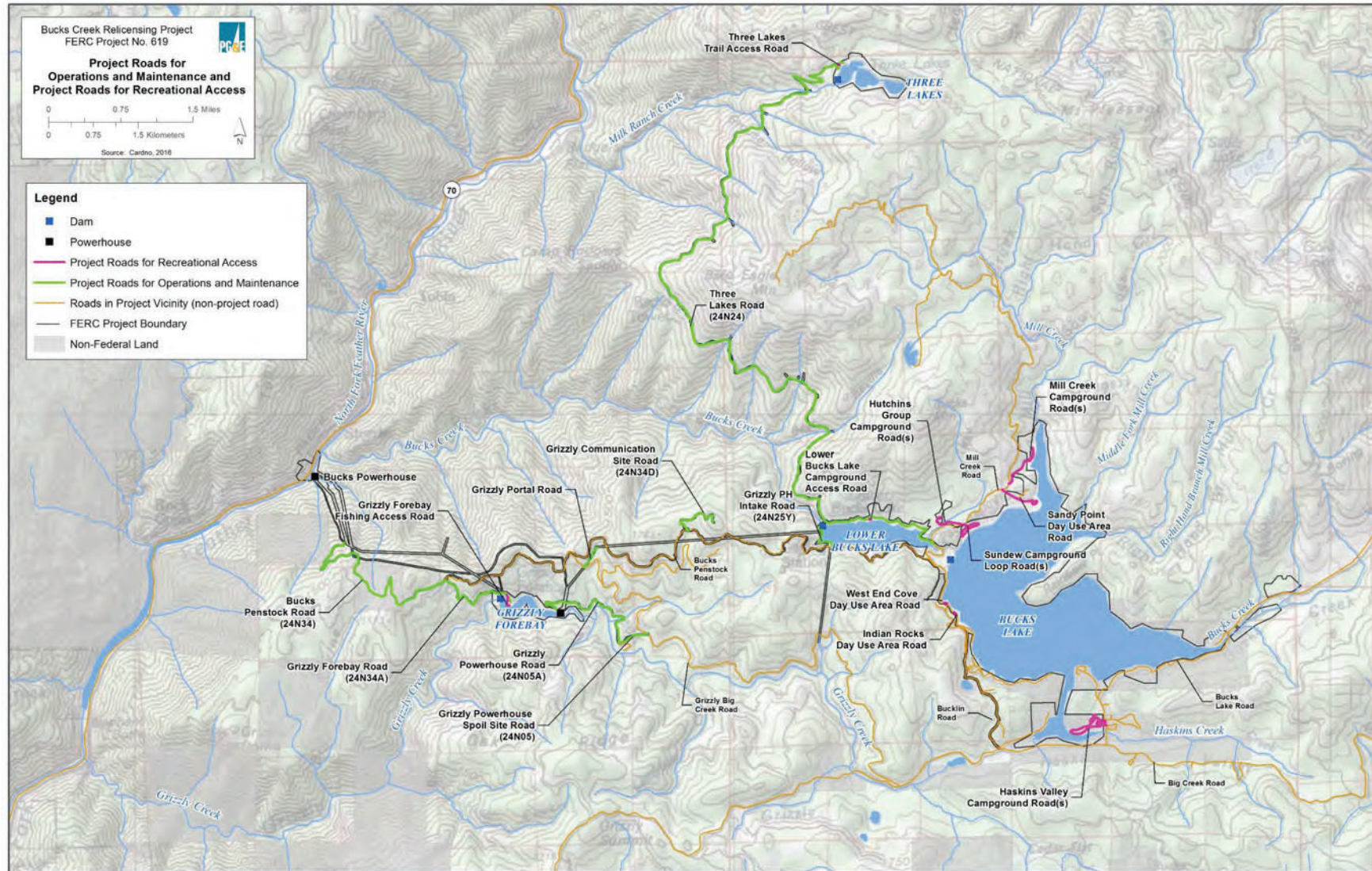
The goals in the Circulation Element of the General Plan are as follows:

- Circulation Goal 4.1: Develop and maintain a roadway system that provides access and mobility for Plumas residents, visitors and businesses and that adequately serves existing and planned land uses while maintaining the region's character and providing safe and reliable infrastructure.
- Circulation Goal 4.2: The County shall seek to develop or upgrade all State Highways, arterials and collectors, as Complete Streets that accommodate all travel modes with appropriate strategies, based on planning area designation.

- Circulation Goal 4.3: Enhance the mobility of Plumas County residents and visitors through improvements in public transit services and improve awareness of public transit options.
- Circulation Goal 4.4: Encourage non-auto transportation throughout Plumas County by providing a safe, comprehensive and integrated system of facilities for pedestrians, cyclists and other non-motorized modes of transportation.
- Circulation Goal 4.5: Protect the present air and rail transportation facilities to ensure that local policies, developments and other actions do not restrict utilization and maintenance, preserve the viability and utility of existing facilities, and prevent incompatible land uses.
- Circulation Goal 4.6: Protect and enhance the environment, both locally and globally, in the development and maintenance of the transportation network.

As described in the Transportation Management Plan for the Project (PG&E and City of Santa Clara 2019b), there are approximately 17.4 miles of Project Roads identified for operations and maintenance and four (4) miles of Project Roads used for recreational access. Figure 4.2.9-1 is from the September 2019 Final Transportation Management Plan and shows the Project Roads.

Figure 4.2.9-1. Project Roads for Operations and Maintenance and Project Roads for Recreation Access



Source: Transportation Management Plan, Attachment A, PG&E and City of Santa Clara 2019b

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Impact Analysis

Project-related transportation impacts would be associated with:

- an increase in visitation associated with recreation facility improvements;
- an increase in travel trips associated with construction of recreation and road facility improvements (e.g. caused by construction workers travelling to and from project sites, or caused by construction equipment and haul trucks traveling to and from a construction project site); or
- ingress and egress challenges created during construction of recreation or road facility improvements.

The Project does not include the construction of facilities with design features that could pose a hazard to motorists, nor would the Project conflict with implementation of any of the goals within the Circulation Element of the Plumas County General Plan, or with any other program, plan, ordinance or policy addressing the circulation system as there are no programs, plans, ordinances, or policies specific to the circulation system for the Project area.

To address the potential for increased visitation associated with facility improvements, the licensees conducted studies to identify existing use of the current recreation facilities relative to the capacity of the facilities (PG&E and City of Santa Clara, 2016, Technical Memo-30). The studies determined that the demand for recreation within the project boundary is estimated to increase by 18 percent from 2016 to 2036 (PG&E and City of Santa Clara 2018). While this demand would increase the weekend peak season occupancy of existing recreation facilities, it is not driven by or linked to any of the proposed recreation facility improvements associated with the license. Rather, the projection is based on the estimated population changes in California and Nevada counties where most recreation users originate. Thus, improvements to Project campgrounds and day use facilities, including expanding parking capacity at some day use areas, and expanding overnight capacity at some campgrounds (e.g. Lower Bucks Lake Campground) would not cause an increase in visitation but would help accommodate projected increases in visitors over the next 20 years.

Construction of facility improvements is anticipated to generate additional vehicle trips by workers commuting to construction sites, and by large trucks transporting heavy equipment and haul material. However, several factors limit the construction-related vehicle miles travelled (VMT): First, construction-related VMT would be limited to the modifications planned for that year. As shown in the project schedule for recreation facility improvements (Table 3.1-1 in the Recreation Management Plan) and in the project schedule for transportation improvements (Table 2.10-1 in the Transportation Management Plan), facility modifications are planned at a limited number of sites each year over a 20-year implementation period. Second, based on an analysis of the anticipated construction schedule and materials needed for each of the facility modifications, the maximum number of haul trips per weekday for any one construction project is not anticipated to exceed 15 trips in any one day over the course of a single summer construction season (see Appendix B for construction information for recreation and transportation construction activities). Third, all or most heavy equipment transported to a site for use would be staged within or near the Project site for the duration of the Project.

Construction traffic associated with the Project could result in short-term and temporary delays of emergency traffic during the construction period, particularly during peak recreation periods when traffic is higher. Travel could also be impeded due to road improvements that result in lane closures. However, planning provisions described in the Recreation Management Plan and in the Transportation Management Plan ensure that none of the construction activities would create significant ingress or egress challenges to any recreational facilities or other destinations in the vicinity. For recreation facility improvements, these provisions include requirements for the development of detailed conceptual site plans that describe construction methods, equipment, crew access, routes and timing, and that identify necessary measures to provide recreation access and parking during construction. For transportation facility operations and maintenance, annual road operations and maintenance schedules must be developed and submitted to the Forest Service, compliant with Forest Service standards, specifications, Road Management Objectives (RMOs), BMPs, and all state requirements.

Level of Significance

The Project would not conflict with any program, plan, ordinance or policy addressing the circulation system, does not propose uses that would substantially increase VMT in the area, either from additional visitors or from construction equipment or construction personnel, does not include the construction of any facilities with geometric design features that could pose a hazard to motorists, and includes planning provisions that would ensure that none of the construction activities would impair emergency access, or otherwise create any long-term ingress or egress challenges. Overall, transportation impacts are less than significant.

4.2.10 Utilities and Service Systems

Would the project:

	Significant Unavoidable Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	☐	☐	☒	☐
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	☐	☐	☒	☐
c) Result in a determination by the waste water treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	☐	☐	☒	☐
d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

Environmental Setting

Most public use facilities associated with the Project are served by groundwater wells for potable water supply. The exception is potable water at both the Bucks Creek Powerhouse and Grizzly Powerhouse, which is trucked in. As there are no alluvial groundwater basins in the Project area (DWR 2019), the existing wells likely tap into groundwater contained in hard rock fractures. The Project is located within the Southeast Planning Area of the Sacramento River Hydrologic Region. Based on data collected between 2005 and 2010, the Southeast Planning Area uses 23.3 thousand acre-feet (taf) of groundwater for urban uses (DWR 2015), which includes uses from the Bucks Creek Project. With the exception of the Sandy Point Day Use Area, restrooms associated with Project facilities are served by vault toilets. Contractors for the Forest Service or PG&E (depending on the Project facility) are responsible for pumping wastewater from vault toilet sewage tanks and providing trash removal service. The restrooms at Sandy Point Day Use Area are on a septic system that is currently the responsibility of the Forest Service to maintain (but would become the responsibility of PG&E under the new license). Electricity to the Project area and vicinity is provided by PG&E, though not all Project facilities are on the electric grid (e.g. recreational facilities on the north shore of Bucks Lake).

In accordance with the California Integrated Waste Management Act of 1989 (IWM Act), Plumas County maintains an Integrated Waste Management Plan (IWMP). Under the IWM Act, every city and county in California is required to reduce the volume of waste sent to landfills by 50 percent by 2000 and assure maintenance of at least a 15-year landfill capacity for solid wastes that are generated in the county and cannot be reduced or recycled. The nearest solid waste transfer stations to the Project area are in Quincy, California (the East Quincy Transfer Station) approximately 19 miles east of Bucks Lake, and in Greenville, California, (Greenville Transfer Station) approximately 40 miles northeast of Bucks Lake. The East Quincy Transfer Station also accepts woody and non-woody green waste. These transfer stations are administered by the Solid Waste Division of the Plumas County Department of Public Works via its franchise contractor, Feather River Disposal (a subsidiary of Waste Management, Inc.). Waste from the Project area is generally disposed of at either the Chester Sanitary Landfill in Chester, California (in Plumas County) or at the Lockwood Regional Landfill outside of Reno, Nevada. The Chester Sanitary Landfill has a design capacity of 390,000 cubic yards,

accepts up to 44 tons of waste per day, and has an estimated closure year of 2024 (CalRecycle 2019). The Lockwood Regional Landfill has a design capacity of 302.5 million cubic yards, and accepts approximately 5,000 tons of waste per day (Nevada Division of Environmental Protection 2019).

Impact Analysis

Impacts to utilities serving the Project would be limited to those associated with recreation improvements and modifications. Improvements to Project recreational facilities would provide the same level of development, capacity, and visitor comfort as the Project recreation facilities were originally designed to provide. Improvements include construction and installation of between five and ten new vault toilets, replacement of some existing vault toilets and water systems (including those associated with flush restrooms), and the addition of additional drinking water spigots at those campgrounds where additional overnight campsites are added (e.g. Lower Bucks Lake Campground). In addition, electrical hook-ups (e.g. 120-volt outlets) would be installed at between 20 and 30 campsites. These improvements are incremental modifications planned at specified recreational sites over the course of 20 years from issuance of the new FERC license. These activities would not require or result in the relocation or construction of new or expanded water treatment, wastewater treatment, storm water drainage, electric power generation, natural gas, or telecommunication facilities. PG&E and the Forest Service have indicated there is a sufficient water supply capacity to serve existing Project campground and day-use areas, noting that there was no record well capacity issues were experienced during the historically severe 2012-2016 drought (personal communication with PG&E Senior Land Planner J. Viscarra, January 6, 2020). The moderate expansion of some recreation facilities is not anticipated to necessitate construction of any new wells.

The Project would continue to generate waste associated with use of the recreation facilities (e.g. waste collected at campground and day-use facilities) and would also generate demolition debris associated with facility construction and modification. All waste would continue to be disposed of in compliance with Federal, State, and local regulations related to solid waste. Solid waste and green waste would most likely be disposed of at East Quincy Transfer Station operated by Feather River Disposal. Final disposal of solid waste debris would be the responsibility of Plumas County Department of Public Works and its contractor (Feather River Disposal). As the Chester Sanitary Landfill is nearing capacity with an anticipated closure date of 2024, solid waste from Project facilities (from use of recreation facilities and associated with construction debris) would likely be sent to the Lockwood Regional Landfill in the state of Nevada in the future, which has adequate long-term capacity for Project disposal needs.

Level of Significance

The Project would not result in the relocation or construction of new or expanded water treatment, wastewater treatment or stormwater drainage, electric power generation, natural gas or telecommunication facilities. There is sufficient water available to serve the Project and planned recreation improvements would not create substantial new demand for water that could not be met by existing supplies. The Project would not generate solid waste in excess of state or local standards, exceed the capacity of local infrastructure, substantially increase the waste stream to local landfills, or otherwise impair the attainment of solid waste reduction goals contained in the Plumas County IWMP. Therefore, the Project will not result in a significant impact related to solid waste disposal. Project impacts to utilities and service systems would be less than significant.

4.2.11 Wildfire

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Significant Unavoidable Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☒	☐
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☒	☐
c) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☒	☐

Environmental Setting

The entire Project area is forested, with a moderate density of roads, and a relatively high potential for wildfire (FERC 2019). Parts of the Project area are located in State Responsibility Areas identified by CALFIRE as very high, high, or moderate fire hazard zones (CALFIRE 2007). Fire suppression is a shared responsibility between the Forest Service, CALFIRE, and Plumas County, and response times in the event of a fire in the Project area may be long because of the distance to fire stations and equipment.

PG&E is responsible for operation of the Bucks Creek Project, including operations and maintenance of all infrastructure associated with both the Bucks Creek and Grizzly Developments.²¹ Faulty or damaged energy infrastructure (including the Grizzly Powerhouse 115 kV intertie) has been the ignition source for several of the recent and historically large fires in California. Electric generation and related utility companies have been under increased scrutiny in regards to fire safety practices, especially related to vegetation clearing around infrastructure.

In September 2018 California passed legislation requiring public utilities to develop and implement wildfire mitigation plans (SB 901). On February 7, 2020, PG&E submitted its 2020 Wildfire Mitigation Plan (WMP) in compliance with this new legislation and direction from the California Public Utilities Commission (CPUC). The WMP provides details on PG&E's Community Wildfire Safety Program and outlines the additional programs planned from 2020-2022 to prevent catastrophic wildfires (PG&E 2020). These practices are applicable to the Bucks Creek Project and include:

- Reducing wildfire ignition potential by
 - Enhanced vegetation management – including by maintaining 12 feet radial clearance around power lines, removing high risk trees in fall zones, removing overhangs out four feet from power lines and reducing dry fuel on a targeted basis.
 - Asset inspection and repair – including with enhanced visual, infrared and ultrasonic inspection methods.

²¹ Pursuant to a 1990 Settlement Agreement and an Operations and Maintenance Agreement between PG&E and the City, PG&E operates the Grizzly Development, though the City owns the Grizzly Development and financed its construction. City of Santa Clara

- System hardening – involving replacing or eliminating distribution lines in high fire risk areas with equipment that is less likely to start a fire and more likely to survive one.
- System automation – involving enabling remote control and automated operation of field equipment to more precisely deenergize sections of the grid when fire risk is high.
- Public safety power shutoffs (PSPS) – involving shutting off power in high-risk fire areas under high-risk weather conditions.
- Reducing wildfire spreads by
 - Situation awareness (installation of a variety of weather and fire monitoring devices)
 - Integrating wildfire safety operations center and meteorology including with establishment of a 24 hours-per-day, 7 days-per-week meteorology operation that supports PG&E's wildfire safety operations center

In addition to these PG&E fire prevention and response practices, one of the 13 management plans for the Project is a Fire Prevention and Response Plan (PG&E and City of Santa Clara 2019c). This Plan includes specific fire prevention and protection requirements for all Project-related operations and maintenance.

Impact Analysis

The Project would not involve major construction or changes in power generation facilities or operations, and no new electrical infrastructure would be built or modified. Therefore, there would be no change from the existing license conditions related to ignition sources associated with power generation infrastructure. Population increases in California and Nevada over the next 20-30 years are projected to increase the number of people recreating in the area, but are not projected to increase visitors to the area beyond the capacity of Project facilities to serve, and would not create additional traffic that would impair emergency response or evacuation. Additionally, the short-term, temporary nature of construction and the intermittent nature of material transport off-hauling and drop-off via large trucks at the project site locations would not pose a risk to emergency response or evacuation during an emergency.

The Project would include replacement and minor alteration of existing camping units, infrastructure, and other facilities. These activities, as well as ongoing operation and maintenance of project structures and recreation use of the Project facilities, could provide a source of ignition for a fire (e.g. diesel and fuel-powered vehicles, welding or cutting, and campfires at campgrounds) and thus have the potential to increase the risk of wildland fire occurrence. Any wildfire in the Project vicinity (whether Project related or not) could threaten infrastructure and people in the vicinity (both associated with and not associated with the Project). This risk would be reduced by implementation of standard operations and maintenance practices undertaken by PG&E (e.g., those associated with implementation of its WMP) and by the licensees' proposed Fire Prevention and Response Plan (PG&E and the City of Santa Clara. 2019c), one of the 13 final management plans associated with the new license. The Fire Prevention and Response Plan includes general fire prevention and protection measures for the Project, specific fire prevention and protection measures for Project operations and maintenance activities, fire prevention requirements for tool and equipment use, fire safety at project recreation sites, fire reporting procedures and requirements, fire control procedures and facilities, and the investigation of project-related fires.

The Fire Prevention and Response Plan is consistent with applicable laws and regulations, identifies fire suppression equipment required for at all Project facilities and in Project vehicles, and specifies helicopter access points and the use of Project reservoirs as a source of water for suppression activities. Overall, implementation of the Fire Prevention and Response Plan would improve public safety by ensuring that project operations and maintenance activities are conducted in a manner that would prevent the ignition and spread of wildland fires, and by guiding the response should fires occur.

Level of Significance

The Project would not impair an adopted emergency response plan or emergency evacuation plan or impair emergency response or evacuation. Potential increases to wildfire risk associated with the installation and

maintenance of Project infrastructure would be minimized by implementation of PG&E's WMP and by implementation of the Fire Prevention and Response Plan. This plan would reduce the risk of Project-related wildland fires and fires that occur near Project facilities; it also would help protect the licensees' hydropower assets and environmental resources on project land and adjacent non-project land. Wildfire impacts associated with the new license agreement would be less than significant.

4.3 Level of Significance Summary

As summarized in the NEPA and CEQA handbook published by the Council on Environmental Quality (CEQ) in collaboration with the California Office of Planning and Research: "NEPA and CEQA have a shared purpose of identifying significant environmental impacts, however, they have slightly different, although not incongruous, definitions, and approaches to determining significance"(California Office of Planning and Research 2014).

The NEPA determination of significance is based on context and intensity (40 Code of Federal Regulations § 1508.27). Context refers to the need to consider impacts within the setting in which they occur (40 Code of Federal Regulations § 1508.27(a)). Intensity refers to the severity of the impact (40 Code of Federal Regulations § 1508.27(b)).

The CEQA determination of significance is based on evaluation of whether the project will have "a substantial, or potentially substantial, adverse change within the area affected by the project" (California Code of Regulations, Title 14 § 15382). Under CEQA a "threshold of significance" is "an identifiable quantitative, qualitative, or performance level of a particular environmental effect, non-compliance with which means the effect will normally be determined to be significant by the agency and compliance with which means the effect normally will be determined to be less than significant" (California Code of Regulations, Title 14 §15064.7(a)). Reference to "significant" or "less-than-significant" environmental effects in this CEQA Supplement is considered a CEQA-related finding consistent with CEQA Guidelines, Section 21082.2 (California Code of Regulations, Title 14, § 15000 et seq.).

Table 4.3-1 provides a determination of the level of significance of potential impacts associated with implementation of the Project for each resource area required by CEQA. Evaluation of environmental impacts is based on the environmental checklist presented in Appendix G of the 2019 State CEQA Guidelines. Four types of potential significance-level determinations are identified in Table 4.3-1:

- no impact (NI)-meaning the Project has no possibility of resulting in an adverse change in resource condition relative to the baseline condition;
- less-than-significant (LTS) impact;
- less-than-significant impact with mitigation incorporated (LTS w/MI); and
- significant unavoidable impact (SUI).

Significance level determinations in this CEQA Supplement are based on the analysis provided in FERC's NEPA documents, in combination with the analysis described in Section 4.2 of this document. Significance determinations were made after evaluating potential adverse impacts to resource conditions (relative to the baseline) associated with the Project. "The Project" as defined in this CEQA analysis includes all relevant new license conditions (protection, mitigation and enhancement measures) reflected in the FERC Staff Alternative of the FEIS for the Project as well as all Forest Service final 4(e) conditions and State Water Board anticipated conditions to be considered as part of its future section 401 Certification decision on the Project. For each resource area, the level of significance summarized in the table reflects the greatest potential level of significance for criteria in that resource category. For example, if the CEQA checklist for a resource (e.g. aesthetics) poses four different questions related to environmental effects of the proposed project and the response for three of the questions is "no impact," but the response for one of the questions is "less than significant," then the summary table reflects a "less than significant" impact determination for the resource. As summarized in Table 4.3-1, there were no potential impacts from the Bucks Creek Project identified that required additional

mitigation or that were identified as potentially significant, significant or unavoidable. All resource areas had a significance determination of either “no impact” or “less than significant,” after taking into account the whole Project, including all PM&E measures and required terms and conditions. Table 4.3-2 documents and references the locations in the FERC Relicensing/NEPA Project record pertinent to CEQA resource impacts and thresholds for all CEQA resource categories.

Table 4.3-1. Level of Significance Associated with Implementation of the Bucks Creek Project

CEQA Resource Area	Level of Significance			
	Significant Unavoidable Impact (SUI)	Less than Significant with Mitigation Incorporated (LTS/wMI)	Less Than Significant (LTS)	No Impact (NI)
Aesthetics			X	
Agriculture/Forestry Resources				X
Air Quality			X	
Biological Resources			X	
Cultural Resources			X	
Energy			X	
Geology and Soils			X	
Greenhouse Gas Emissions			X	
Hazards and Hazardous Materials			X	
Hydrology and Water Quality			X	
Land Use/Planning			X	
Mineral Resources				X
Noise			X	
Population and Housing				X
Public Services			X	
Recreation			X	
Transportation			X	
Tribal Cultural Resources			X	
Utilities and Service Systems			X	
Wildfire			X	

Table 4.3-2. CEQA Analysis Documentation in the FERC Relicensing/NEPA Project Record

CEQA Analysis Appendix G - Environmental Checklist Form	Document Reference			
	FEIS Section	Final License Application		Management Plans and/or Technical Memoranda
		Volume I: Public Exhibits A, B, C, D, F, G and H	Volume II: Public Exhibit E, Environmental Exhibit	
Aesthetics	3.3.6 Land Use and Aesthetics		E.7.8 Aesthetic Resources	
Agriculture and Forest Resources				
Air Quality	1.2.2 Need for Power			Transportation Management Plan (September 2019) Recreation Management Plan (October 2019) Updated Technical Memo (TM- 18): Maintenance of Project- Related Roads (LU-S1) (December 2016)
Biological Resources	3.3.2 Aquatic Resources 3.3.3 Terrestrial Resources 3.3.4 Threatened and Endangered Species		E.7.3 Fish and Aquatic Resources E.7.4 Wildlife Resources E.7.5. Botanical Resources E.7.6 Riparian, Wetland and Littoral Habitats	
Cultural Resources	3.3.7 Cultural Resources		E.7.9 Cultural and Tribal Resources	Historic Properties Management Plan (August 2019)
Energy	1.2.2 Need for Power	Exhibit D, Statement of Project Cost and Financing		
Geology/Soils	3.3.1 Geologic and Soil Resources		E.7.1 Geology and Soil Resources	Bucks Lake Shoreline Management Plan (June 2019) Erosion Management Plan (April 2018) Transportation Management Plan (September 2019)

Greenhouse Gas Emissions				Transportation Management Plan (September 2019) Recreation Management Plan (October 2019) Updated Technical Memo (TM-18): Maintenance of Project-Related Roads (LU-S1) (December 2016)
Hazards and Hazardous Materials	3.3.2 Aquatic Resources - Water Quality			Hazardous Materials Management Plan (September 2019)
Hydrology/Water Quality	3.3.2 Aquatic Resources - Water Quantity - Water Quality - Cumulative Effects		E.7.1 Geology and Soil Resources; E.7.1.2. Channel Morphology and Fluvial Geomorphic Processes E.7.2 Water Resources E.7.2.2 Water Quality	Bucks Lake Shoreline Management Plan (Sep 2019) Streamflow and Reservoir Level Gaging Plan (April 2018)
Land Use/Planning	3.3.6 Land Use and Aesthetics		E.7.7 Recreation and Land Use Resources E.9 Consistency with Comprehensive Plans	Transportation Management Plan (September 2019) Fire Prevention and Response Plan (Sep 2019) Bucks Lake Shoreline Management Plan (Sep 2019)
Mineral Resources				
Noise	DEIS Section 3.3.3 – Terrestrial Resources DEIS Section 3.3.4 – Threatened and Endangered Species DEIS Section 5.3 – Unavoidable Adverse Effects Supplemental Filing Section 3.6 – Botanical and Wildlife Resources Supplemental Filing Section 3.9 – Recreation Resources			Transportation Management Plan (September 2019) Recreation Management Plan (October 2019) Updated Technical Memo (TM-18): Maintenance of Project-Related Roads (LU-S1) (December 2016)
Population/Housing	3.3.5 Recreation Resources - Projected Recreational Demand			

Public Services				
Recreation	3.3.5 Recreation Resources		E.5 Project Facilities and Operations E.7.7 Recreation and Land Use Resources	Recreation Management Plan (October 2019)
Transportation/Traffic	3.3.5 Recreation Resources - Projected Recreational Demand			Transportation Management Plan (September 2019) Updated Technical Memo (TM-18): Maintenance of Project-Related Roads (LU-S1) (December 2016)
Tribal Cultural Resources	3.3.7 Cultural Resources			Historic Properties Management Plan (August 2019)
Utilities and Service Systems			E.5 Project Facilities and Operations	
Wildfire	3.3.6 Land Use and Aesthetics - Fire Prevention and Response Plan			Fire Prevention and Response Plan (Sep 2019)
Cumulative Impacts	3.3.2.3 Aquatic Resources - Fishery Resources - Cumulative Effects 3.3.3.3 Terrestrial Resources - Cumulative Effects 3.3.4.3 Threatened and Endangered Species - Cumulative Effects 3.2 Scope of Cumulative Effects Analysis		E.3 Cumulative Effects	
Growth-Inducing Effects				
Significant Irreversible Environmental Changes				

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4.4 Other CEQA Considerations

4.4.1 Significant Irreversible Environmental Changes

CEQA Guidelines require that an EIR address any significant irreversible changes to the environment possibly resulting from implementation of a project [(California Code of Regulations, Title 14 § 15126(c)]. The FERC DEIS did not identify any unavoidable significant impacts associated with implementation of the Project, nor were there any unavoidable significant impacts identified in this CEQA Supplement. Therefore, the City of Santa Clara concludes that implementation of the new license conditions will not likely result in any significant irreversible environmental changes.

4.4.2 Growth-Inducing Effects

CEQA Guidelines require evaluation of a project's potential to cause growth inducing impacts (California Code of Regulations, Title 14 § 15126.2(d)). A project can be considered to have a growth-inducing effect if it directly or indirectly fosters economic or population growth or removes obstacles to population growth, strains existing community service facilities to the extent that the construction of new facilities would be needed, or encourages or facilitates other activities that cause significant environmental effects.

Recreational facility improvements and enhancements associated with the implementation of the Recreation Management Plan may foster some minor economic growth (in the recreation sector) near the Project. However, this economic growth is expected to be small and is considered less than significant. Under a new license, the Project would continue to operate essentially as it has in the past, continuing to provide electricity to meet existing power needs. The new license conditions would include new environmental programs, measures, and facilities that were specifically developed to promote resource protection (i.e., protection, mitigation and enhancement measures). Any potential growth-inducing impacts of the new license for the Project as compared to baseline conditions would be negligible and less than significant.

4.4.3 Cumulative Impacts

CEQA Guidelines require that cumulative impacts are evaluated (California Code of Regulations, Title 14 § 15126(c)). A cumulative impact consists of an impact that is the result of a combination of the project with other past, present, or reasonably foreseeable projects causing related impacts. This requirement is similar to the Council on Environmental Quality's regulations for considering cumulative effects under NEPA: the impact on the environment which results from the incremental impacts of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (Federal or non-Federal) or person undertakes such other actions (Code of Federal Regulations, Title 40 § 1508.7).

NEPA EIS – Operations and Maintenance – FERC considered cumulative impacts associated with the Project in the FEIS for all the resources analyzed in that document. The FERC FEIS (Section 3.2, Scope of Cumulative Effects Analysis) identified that water resources, aquatic resources, vegetation and special-status amphibians could be cumulatively affected by the project. The FERC FEIS cumulative effects analysis focuses on water temperature, resident trout, vegetation and foothill yellow-legged frog (FYFL) and Sierra Nevada yellow-legged frog (SNYLF). For each of these potentially affected resources, FERC's analysis concluded that implementation of the new license conditions under the FERC Staff Alternative would reduce the cumulative effects associated with operation of the facilities.

CEQA Supplement – Impacts associated with Construction Activities and Use of Recreational Facilities – The analysis of the 11 resource areas addressed in this CEQA Supplement (Section 4.2) indicates that implementation of the new license would have no impact to three of the resources (agriculture and forest resources, mineral resources, and population and housing) and a less than significant impact to each of the remaining eight: air quality, energy, GHG emissions, noise, public services, transportation, utilities and service systems, and wildfire. With the exception of GHG emissions associated with replacing the small loss of power due to minimum instream flow requirements (see below), impacts identified were associated with seasonal construction activities (e.g. air emissions and noise generated during construction) and operation of the proposed facility improvements (e.g. impacts associated with use of the new and modified recreation facilities). Therefore, cumulative impacts would

be those associated with other construction activities in the project vicinity and with the expansion of nearby recreation or residential facilities that might, cumulatively, stress public services and utilities. However, there are no existing or reasonably foreseeable projects in the vicinity of the Project or within the Project boundary that would contribute to cumulative construction impacts or increase visitors or residents to the area. No upcoming projects have been identified as part of the stakeholder relicensing process, and the Plumas County Planning department confirmed in March of 2020 that there were no known project proposals in the area (personal communication with Plumas County Associate Planner Tim Evans on March 24, 2020). While there is one licensee led project, the Lower Bucks Lake Dam Geomembrane Liner Installation Project (Geomembrane Project), currently in the permitting phase, implementation of that project is planned for the summer of 2020 and is anticipated to be complete before the new license is issued.²² As such, the Geomembrane Project would not contribute to any cumulative impacts associated with construction activity during the term of the new license.

In summary, with the exception of GHG emissions (discussed below) impacts identified in this CEQA document are related to seasonal construction activities and operation of the proposed facility improvements. As these impacts were determined to be less than significant, and as there are no present or reasonably foreseeable future projects planned in the vicinity of the Project or within the Project boundary that would contribute additional impacts, there are no cumulative effects associated with implementation of the Project for air quality, energy, noise, public services, transportation, utilities and service systems, or wildfire.

CEQA Supplement – Operations and Maintenance – The only operational impact identified in this CEQA Supplement is associated with GHG emissions (see Section 4.2.4, Greenhouse Gas Emissions). The analysis identified that the small loss of power (10.8 GWh/year) due to minimum instream flow requirements under the new license may need to be replaced by PG&E and the City of Santa Clara. Depending on the energy resources used to replace this power, the change in GHG emissions associated with implementation of the Project could range from approximately no change (if replaced with renewable sources or not replaced) to an annual increase of approximately 4,715 MT CO₂e. This change is speculative and identified as a less than significant impact in the context of California's RPS mandates and PG&E and the City of Santa Clara's compliance with the RPS mandates. Other hydroelectric projects in California may experience similar minor losses of power generation as a result of instream flow requirements associated with a new FERC license. However, the utilities that rely on the hydroelectric power are all subject to the same RPS mandates, laws and executive orders to reduce GHG, and the potential minor losses of hydroelectric power associated with various relicensing projects would not negate the state requirements to meet GHG reduction targets. Therefore, even if the Project's power was temporarily replaced with a power source that created GHG emissions, the Project would not contribute to a cumulatively considerable increase in GHG that would constitute a significant impact.

4.4.4 Assembly Bill 52 Documentation (Formal Tribal Consultation)

As part of the relicensing process, substantive consultation with tribes identified as having traditional or cultural affiliation with the geographic area of the Bucks Creek Project was initiated by the licensees in 2013, and certain tribal representatives participated in the FERC proceedings for the Project as a result. In addition to this consultation, the City of Santa Clara as CEQA lead agency and in compliance with the requirements of Assembly Bill 52 (AB 52) and pursuant to Public Resources Code Sections 21080.3.1 and 21080.3.2, initiated its own request for formal consultation with tribal stakeholders in the summer of 2019. Public Resources Code Sections 21080.3.1 and 21080.3.2 require public agencies to consult with California Native American tribes identified by the Native American Heritage Commission (NAHC) for the purpose of avoiding or mitigating impact to tribal cultural resources. Formal notification must include a brief description of the proposed project

²² The Geomembrane Project is an upgrade to the Lower Bucks Lake Dam. The upgrade involves attachment of a waterproof membrane to the upstream surface of the dam to prevent seepage and extend the dam's service life. The Geomembrane Project will require PG&E to drain Lower Bucks Lake and close public access to the lake from May to November 2020.

and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation. The City of Santa Clara corresponded with the NAHC in early July 2019 requesting a CEQA Tribal Consultation List for the Project and the NAHC subsequently provided the City with a list of tribes with traditional or cultural affiliations within the geographic area of the Bucks Creek Project. Using this list of tribal contacts, the City issued a formal letter requesting consultation on the Project on July 29, 2019. None of the tribes contacted by the City requested further consultation. Appendix C includes the City's record of tribal consultation.

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5.0 MITIGATION MEASURES

This CEQA Supplement analyzes the Bucks Creek Project under the new license conditions proposed by the licensees and identified in FERC's Staff Alternative in the FEIS (Section 2.3). The proposed license conditions include new environmental programs, measures, and facility modifications (the PM&E measures) designed to protect, maintain, or enhance environmental and cultural resources over the term of the new license. These environmental programs, measures, and facility modifications also include avoidance and protection measures and best management practices. With incorporation of these license conditions, there are no resource areas or thresholds for which the Bucks Creek Project would have impacts that are significant and unavoidable, or for which mitigation is required to reduce impact levels to less than significant.

In addition, this CEQA analysis takes into account impacts associated with incorporation of Forest Service final 4(e) conditions, and impacts of proposed terms and conditions contained in the State Water Board's anticipated section 401 certification of the Project. None of these conditions would result in impacts to resource areas or thresholds for which mitigation would be required, but rather would add additional assurance that environmental and cultural resources in the Project area would be protected and possibly enhanced. Table 4.3-1 summarizes the level of significance findings for each of the resource areas in the 2019 CEQA environmental checklist (Appendix G of the 2019 CEQA Guidelines). As shown in the table summary, all resource areas had a significance determination of either "no impact" or "less than significant."

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6.0 PERMITS

The new license conditions for the Project includes construction and maintenance activities that would require permits from other entities before construction may proceed. These permits would be triggered by implementation of the recreational and transportation projects identified in the Recreation Management Plan and Transportation Management Plan, and by other operation and maintenance activities associated with upkeep of the Project. The licensees would obtain all required regulatory permits prior to undertaking any construction activities. Permits required for the recreation and transportation modifications and improvements may include the following:

- USACE Clean Water Act Section 404 Permit;
- Forest Service Road Use Permit and Special Use Permits;
- Regional or State Water Board Section 401 Water Quality Certification;
- State Water Board Construction General Permit;
- CDFW Section 1600 Streambed Alteration Agreement; and
- Caltrans Transportation Permit.

In addition to these permits, additional regulatory compliance pursuant to CEQA or NEPA may be required for some of the construction projects. This additional review is most likely to be triggered by the two new recreation facilities to be constructed under the Recreation Management Plan: the Bucks Lake Boat-in Campground and the Bucks Lake Shoreline Trail.

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Patricia Sussman	Project Manager (CEQA Compliance)/Primary Author – Introduction, Project Description, Alternatives Considered, Environmental Analysis, Agriculture and Forestry Resources, Mineral Resources, Noise, Population and Housing, Public Services, Transportation, Utilities and Service Systems, Wildfire, Other CEQA Considerations, Mitigation Measures, Permits
Sherry Hao	Energy
Jeremy Waites	Geographic Information Systems
Rayann La France	Editor

TRC Companies

Jeremy Pratt	Project Manager – Document Review, GHG from Reservoirs
Karin Greenacre	Air Quality, Greenhouse Gas Emissions
Casey Anderson	Air Quality, Greenhouse Gas Emission

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Appendix A

CEQA NOI/NOA and Notices of Public Meeting

- City of Santa Clara NOI/NOA
- FERC's NOA of DEIS
- State Clearinghouse House NOC/Transmittal of DEIS
- DEIS Distribution List
- Formal Public Notices on NOI/NOA
- FERC's DEIS Public Meeting Notice
- City of Santa Clara DEIS Public Meeting Notices
- State Clearinghouse Letter of Compliance with CEQA

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*Giving You the Power
to Change the World*

June 23, 2017

Subject: Relicensing and Future California Environmental Quality Act Review Processes
for the Bucks Creek Hydroelectric Project (FERC Project No. 619)

Dear Interested Stakeholder:

In November 2013, Pacific Gas & Electric Company (PG&E) and the City of Santa Clara (City) (collectively Licensees), as joint owners and operators of the Bucks Creek Hydroelectric Project, FERC Project No. 619 (Project) jointly filed a Notice of Intent (NOI) and Pre-Application Document (PAD) with the Federal Energy Regulatory Commission (FERC) to seek a new license for the existing hydroelectric facilities and operations. The 84.8 MW Project is located in Plumas County, California and includes several reservoirs, pipelines, hydroelectric power plants, electrical transmission lines, and associated facilities including access roads.

Since the NOI and PAD filing, Licensees have completed and filed the Initial Study Report, Updated Study Report, Draft License Application and Final License Application. At this time, the City is formally announcing its intention to serve as CEQA Lead Agency for the Project relicensing. As a public agency and joint licensee, the City will need to consider the environmental effects of the proposed new license as it decides whether to approve the project and before CEQA responsible agencies can issue permits for any new license terms and conditions. The City's role as CEQA Lead Agency is authorized under California Public Resources Code Section 21083 and its review will be conducted pursuant to CEQA Guidelines Article 4, Section 15050 to 15053.

Your staff's continued participation is requested in the current FERC relicensing process, FERC NEPA process, and future CEQA review process. Activities directly related to development of the City's future CEQA document are already underway with the current FERC relicensing study data analysis, and will be further defined in conjunction with FERC's NEPA process.

As encouraged by both CEQA and NEPA regulations and guidelines, the City anticipates utilizing FERC's NEPA document and process to fulfill the City's CEQA documentation and public/agency consultation requirements to the extent practicable. As a result, your staff's continued participation now is very important for identifying environmental issues and commenting on current relicensing studies. Previous and current activities underway with the FERC relicensing process can be reviewed and followed on the Project's relicensing website at: <http://www.bucksrelicensing.com/Public/default.aspx>

June 23, 2017

Page 2 of 2

We are announcing our CEQA Lead Agency role to resource and land management agencies, the SWRCB, and all other potential stakeholders (see attached distribution list) at this time to continue encouraging early, active, and meaningful participation, which is important to the current FERC relicensing process and the NEPA and CEQA processes. This includes reports and studies that are now available for public inspection on the above listed website. With this notice, agencies and other interested stakeholders will be able to review available information and minimize the potential for future delays or conflicts in the Project's environmental review process.

Thank you for your interest in the relicensing process for this clean, renewable energy resource that substantially contributes to the City's power supply resources. The City looks forward to your staff's continuing participation in the current and future opportunities for public input, including the future CEQA review process. If you have any questions, please contact me at shance@svpower.com, and include [FERC Project No. 619] in the subject field of any email response.

Sincerely,

A handwritten signature in dark ink, appearing to read 'S/H', followed by a long horizontal line extending to the right.

Steve Hance
Silicon Valley Power

Cc Alan A. Soneda, PG&E
 Kimberly Bose, FERC

Attachments

A. Project Description and Status

UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Pacific Gas and Electric Company and
City of Santa Clara, California

Project No. 619-164

NOTICE OF AVAILABILITY OF THE DRAFT ENVIRONMENTAL IMPACT
STATEMENT FOR THE BUCKS CREEK HYDROPOWER PROJECT

(June 14, 2019)

In accordance with the National Environmental Policy Act of 1969 and the Federal Energy Regulatory Commission's (Commission) regulations, 18 CFR Part 380, the Office of Energy Projects has reviewed the application for license for the Bucks Creek Hydropower Project (FERC No. 619) and has prepared a draft environmental impact statement (EIS) for the project. The project is located on Bucks, Grizzly, and Milk Ranch Creeks in Plumas County, California. Portions of the project are located within the Plumas National Forest.

The draft EIS contains staff's evaluations of the co-applicants' proposal and the alternatives for relicensing the Bucks Creek Hydropower Project. The draft EIS documents the views of governmental agencies, non-governmental organizations, affected Indian tribes, the public, the license applicants, and Commission staff.

A copy of the draft EIS is available for review in the Commission's Public Reference Branch, Room 2A, located at 888 First Street, N.E., Washington, DC 20426. The draft EIS also may be viewed on the Commission's web site at <http://www.ferc.gov> under the eLibrary link. Enter the docket number excluding the last three digits in the docket number field to access the document. For assistance, contact FERC Online Support at FERCOnlineSupport@ferc.gov, (866) 208-3676 (toll free), or (202) 502-8659 (TTY).

You may also register online at <http://www.ferc.gov/docs-filing/esubscription.asp> to be notified via email of new filings and issuances related to this or other pending projects. For assistance, contact FERC Online Support.

All comments must be filed by August 13, 2019.

The Commission strongly encourages electronic filing. Please file comments using the Commission's eFiling system at <http://www.ferc.gov/docs-filing/efiling.asp>. Commenters can submit brief comments up to 6,000 characters, without prior

registration, using the eComment system at <http://www.ferc.gov/docs-filing/ecomment.asp>. You must include your name and contact information at the end of your comments. For assistance, please contact FERC Online Support. In lieu of electronic filing, please send a paper copy to: Secretary, Federal Energy Regulatory Commission, 888 First Street, NE, Washington, DC 20426. The first page of any filing should include docket number P-619-164.

Anyone may intervene in this proceeding based on this draft EIS (18 CFR 380.10). You must file your request to intervene as specified above.¹ You do not need intervenor status to have your comments considered.

Commission staff will hold two public meetings for the purpose of receiving comments on the draft EIS. The daytime meeting will focus on resource agency, Indian tribes, and non-governmental organization comments, while the evening meeting is primarily for receiving input from the public. All interested individuals and entities will be invited to attend one or both of the public meetings. A notice detailing the exact date, time, and location of the public meetings will be forthcoming.

For further information, please contact Alan Mitchnick at (202) 502-6074 or at alan.mitchnick@ferc.gov.

Nathaniel J. Davis, Sr.,
Deputy Secretary.

¹ Interventions may also be filed electronically via the Internet in lieu of paper. See the previous discussion on filing comments electronically.

2019069104

Form F

Summary Form for Electronic Document Submittal

Lead agencies may include 15 hardcopies of this document when submitting electronic copies of Environmental Impact Reports, Negative Declarations, Mitigated Negative Declarations, or Notices of Preparation to the State Clearinghouse (SCH). The SCH also accepts other summaries, such as EIR Executive Summaries prepared pursuant to CEQA Guidelines Section 15123. Please include one copy of the Notice of Completion Form (NOC) with your submission and attach the summary to each electronic copy of the document.

SCH #: _____

Project Title: Bucks Creek Hydroelectric Project (FERC Project No. 619)

Lead Agency: City of Santa Clara, dba Silicon Valley Power

Contact Name: Reena Brilliot, Planning Manager

Email: RBrilliot@SantaClaraCA.gov

Phone Number: 408-615-2452

Project Location: Plumas County

City

County

Project Description (Proposed actions, location, and/or consequences).

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115-kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

Identify the project's significant or potentially significant effects and briefly describe any proposed mitigation measures that would reduce or avoid that effect.

The DEIS describes the primary issues associated with relicensing the proposed Bucks Creek Project as the effects of continued project operation on geology and soils, water quality, fishery resources, terrestrial resources, threatened and endangered species, recreation and land use, and cultural resources. The DEIS includes recommended environmental measures proposed by the licensees, as modified by FERC, that would adequately protect and enhance environmental resources affected by the proposed project.

If applicable, describe any of the project's areas of controversy known to the Lead Agency, including issues raised by agencies and the public.

The DEIS describes the primary issues associated with relicensing the proposed Bucks Creek Project as the effects of continued project operation on geology and soils, water quality, fishery resources, terrestrial resources, threatened and endangered species, recreation and land use, and cultural resources. The DEIS includes recommended environmental measures proposed by the licensees, as modified by FERC, that would adequately protect and enhance environmental resources affected by the proposed project.

Provide a list of the responsible or trustee agencies for the project.

State Water Resources Control Board
California Department of Fish and Wildlife Region 2
City of Santa Clara (dba Silicon Valley Power)
U.S. EPA Region 9
Central Valley RWQCB
California Natural Resources Agency
Caltrans District 2 - NE
Northern Sierra Air Quality Management District
State of California Department of Water Resources
State Lands Commission
California Department of Forestry and Fire Protection
State of California Energy Commission
Native American Heritage Commission
Plumas County Environmental Health
Plumas County Public Works
Plumas County Flood Control and Water Conservation District

Federal Energy Regulatory Commission
U.S. Fish and Wildlife Service
U.S. Forest Service

Notice of Completion & Environmental Document Transmittal

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613
 For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH# **2019069104****Project Title:** Bucks Creek Hydroelectric Project (FERC Project No. 619)

Lead Agency: City of Santa Clara dba Silicon Valley Power

Contact Person: John Davidson

Mailing Address: 1500 Warburton Avenue

Phone: 408-615-2478

City: Santa Clara

Zip: 95971

County: Santa Clara

Project Location: County: Plumas

City/Nearest Community: Quincy

Cross Streets: Forest Service Road 24N34

Zip Code: 95971

Longitude/Latitude (degrees, minutes and seconds): _____ " N / _____ " W Total Acres: 1,539.5

Assessor's Parcel No.:

Section:

Twp.:

Range:

Base:

Within 2 Miles: State Hwy #: 70

Waterways: Bucks, Grizzly and Milk Ranch Creeks

Airports:

Railways:

Schools:

Document Type:

CEQA:

☐ NOP☐ Early Cons☐ Neg Dec☐ Mit Neg Dec☐ Draft EIR☐ Supplement/Subsequent EIR☐ (Prior SCH No.)☐ Other: NOI

NEPA:

☐ NOI☐ EA☒ Draft EIS☐ FONSI

Other:

☐ Joint Document☐ Final Document☐ Other:**Local Action Type:**☐ General Plan Update☐ General Plan Amendment☐ General Plan Element☐ Community Plan☐ Specific Plan☐ Master Plan☐ Planned Unit Development☐ Site Plan☐ Rezone☐ Prezone☐ Use Permit☐ Land Division (Subdivision, etc.)☐ Annexation☐ Redevelopment☐ Coastal Permit☒ Other: FERC Relicensing**Development Type:**☐ Residential: Units _____ Acres _____☐ Office: Sq.ft. _____ Acres _____☐ Commercial: Sq.ft. _____ Acres _____☐ Industrial: Sq.ft. _____ Acres _____☐ Educational:☐ Recreational:☐ Water Facilities: Type _____ MGD _____

Employees _____

Employees _____

Employees _____

Employees _____

☐ Transportation: Type _____☐ Mining: Mineral _____☒ Power: Type Hydroelectric MW 84.4☐ Waste Treatment: Type _____ MGD _____☐ Hazardous Waste: Type _____☐ Other: existing facilities**Project Issues Discussed in Document:**☒ Aesthetic/Visual☐ Agricultural Land☐ Air Quality☒ Archeological/Historical☒ Biological Resources☐ Coastal Zone☐ Drainage/Absorption☐ Economic/Jobs☐ Fiscal☐ Flood Plain/Flooding☒ Forest Land/Fire Hazard☒ Geologic/Seismic☐ Minerals☐ Noise☐ Population/Housing Balance☒ Public Services/Facilities☒ Recreation/Parks☐ Schools/Universities☐ Septic Systems☐ Sewer Capacity☐ Soil Erosion/Compaction/Grading☐ Solid Waste☐ Toxic/Hazardous☐ Traffic/Circulation☒ Vegetation☐ Water Quality☐ Water Supply/Groundwater☒ Wetland/Riparian☐ Growth Inducement☒ Land Use☐ Cumulative Effects☐ Other:**Present Land Use/Zoning/General Plan Designation:****Project Description:** (please use a separate page if necessary)

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115-kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

State Clearinghouse Contact:

(916) 445-0613

State Review Began:

6/26/2019

SCH COMPLIANCE

8/13/2019

NOTE: Review per lead

Please note State Clearinghouse Number
(SCH#) on all Comments

SCH#: **2019069104**

Please forward late comments directly to the
Lead Agency

AQMD/APCD 21

(Resources: 6/29)

Project Sent to the following State Agencies**X Resources**☐ Boating & Waterways☒ Central Valley Flood Prot.☐ Coastal Comm☐ Colorado Rvr Bd☐ Conservation☒ CDFW # 2☒ Cal Fire☒ Historic Preservation☒ Parks & Rec☐ Bay Cons & Dev Comm.☒ DWR**Cal EPA**☐ ARB: Airport & Freight☐ ARB: Transportation Projects☒ ARB: Major Industrial/Energy☐ Resources, Recycl. & Recovery☐ SWRCB: Div. of Drinking Water☐ SWRCB: Div. Drinking Wtr #☐ SWRCB: Div. Financial Assist.☒ SWRCB: Wtr Quality☐ SWRCB: Wtr Rights☒ Reg. WQCB # 52☐ Toxic Sub Ctrl-CTC**Yth/Adlt Corrections**☐ Corrections**Independent Comm**☐ Delta Protection Comm☒ Delta Stewardship Council☒ Energy Commission☒ NAHC☒ Public Utilities Comm☐ Santa Monica Bay Restoration☒ State Lands Comm☐ Tahoe Rgl Plan Agency☐ Conservancy☐ Other:**CalSTA**☐ Aeronautics☐ CHP☒ Caltrans# 2☐ Trans Planning**Other**☐ Education☐ Food & Agriculture☐ HCD☐ OES**State/Consumer Svcs**☐ General Services

Reviewing Agencies Checklist

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with an "X".
If you have already sent your document to the agency please denote that with an "S".

☐ Air Resources Board	☒ Office of Historic Preservation
☒ Boating & Waterways, Department of	☐ Office of Public School Construction
☒ California Emergency Management Agency	☒ Parks & Recreation, Department of
☐ California Highway Patrol	☐ Pesticide Regulation, Department of
☒ Caltrans District #2	☒ Public Utilities Commission
☐ Caltrans Division of Aeronautics	☒ Regional WQCB #5
☒ Caltrans Planning	☒ Resources Agency
☐ Central Valley Flood Protection Board	☐ Resources Recycling and Recovery, Department of
☐ Coachella Valley Mtns. Conservancy	☐ S.F. Bay Conservation & Development Comm.
☐ Coastal Commission	☐ San Gabriel & Lower L.A. Rivers & Mtns. Conservancy
☐ Colorado River Board	☐ San Joaquin River Conservancy
☒ Conservation, Department of	☐ Santa Monica Mtns. Conservancy
☐ Corrections, Department of	☒ State Lands Commission
☐ Delta Protection Commission	☐ SWRCB: Clean Water Grants
☐ Education, Department of	☒ SWRCB: Water Quality
☒ Energy Commission	☐ SWRCB: Water Rights
☒ Fish & Game Region #2	☐ Tahoe Regional Planning Agency
☐ Food & Agriculture, Department of	☐ Toxic Substances Control, Department of
☒ Forestry and Fire Protection, Department of	☒ Water Resources, Department of
☐ General Services, Department of	☐ Other: _____
☐ Health Services, Department of	☐ Other: _____
☐ Housing & Community Development	
☒ Native American Heritage Commission	

Local Public Review Period (to be filled in by lead agency)

Starting Date June 14, 2019

Ending Date August 13, 2019

Lead Agency (Complete if applicable):

Consulting Firm: EN2 Resources, Inc

Applicant: City of Santa Clara and PG&E

Address: 1024 Simon Drive, Suite H

Address: 1500 Warburton Avenue

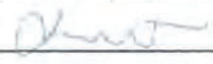
City/State/Zip: Placerville, CA 95667

City/State/Zip: Santa Clara, CA 95071

Contact: Rick Lind

Phone: 408-615-2452

Phone: 530-626-1401

Signature of Lead Agency Representative: 

Date: 6/25/19

Authority cited: Section 21083, Public Resources Code. Reference: Section 21161, Public Resources Code.

Organization	Contact (via USPS mail)	Title	Address	City
	Bruce D. Nikolai		PO BOX 5085	Chico, CA 95927
	Ian D. Ball		1011 Ramona Ave.	Albany, CA 94706
Alpine, County of			'50 Diamond Valley Rd	Markleeville, CA 96120-9512
Amador, County of		Chairman	'810 Court St	Jackson, CA 95642
American Whitewater	Kevin Richard Colburn	'National Stewardship Director	1035 Van Buren Street	Missoula, MT 59802
American Whitewater	Dave Steindorf	California Stewardship Dir.	4 Baroni Drive	Chico, CA 95928-4314
American Whitewater	Carla Miner		3691 S 3200 W	West Valley City, UT 84119
American Whitewater	Julie Gantenbein	Staff Attorney	2140 Shattuck Avenue, Ste. 801	Berkeley, CA 94704-1229
Audubon Society	Don Schmoldt		PO Box 190694	Sacramento, CA 95816-0694
Bartkiewicz, Kronick & Shanahan	Joshua Horowitz	Attorney	1011 22nd Street	Sacramento, CA 95816-4907
Bucks Creek Cabin Association	Dustin Doyle	Bucks Lake Homeowners Association	1219 Cresthaven Dr.	Roseville, CA 95678
Bucks Lake Camp & RV Park	Rodger Grubbs		403 Skyline Blvd.	Oroville, CA 95966-7809
Bucks Lake Homeowners Association	Ken And Dixie Nelson	Haskins Store and B&B	P. O. Box 4217	Quincy, CA 95971-4217
Bucks Lake Homeowners Association	Andrew Everett		251 Scherman Way	Livermore, CA 94550
Butte, County of		Board of Supervisors	25 County Center Dr	Oroville, CA 95965-3316
California Department of Forestry and Fire Protection			P.O. Box 942426	Sacramento, CA 94244-2460
California Department of Fish and Wildlife	Annie Manji	Statewide FERC Coordinator	601 Locust Street	Redding, CA 96001-2711
California Department of Fish and Wildlife		FERC Coordinator	1701 Nimbus Rd.	Rancho Cordova, CA 95670
California Hydro Reform Coalition	Keith Nakatani	Director	370 Belmont St. #6	Oakland, CA 94610-4830
California Natural Resources Agency			1416 Ninth Street, Suite 1311	Sacramento, CA 95814
California Office of Attorney General			1315 10th St Room B-27	Sacramento, CA 95814
California Office of Historic Preservation	Carol Roland-Nawi	State Historic Preservation Officer	1725 23rd Street, Suite 100	Sacramento, CA 95816-7100
California Public Utilities Commission	Harvey Y. Morris	Assistant General Counsel	505 Van Ness Ave., Ste. 5138	'San Francisco, CA 64102
California Public Utilities Commission	Traci Bone		505 Van Ness Avenue, 5th Floor	San Francisco, CA 64102
California State Water Resources Control Board	Nathan Fisch		PO Box 2000	Sacramento, CA 95521
Caltrans District 2 - NE California			1657 Riverside Drive	Redding, CA 96001
Calaveras County, California			891 Mountain Ranch Rd	San Andreas, CA 95249-9713
Cardno	Anthony Knaapen Ii		2300 Clayton Road, Suite 200	Concord, CA 94520
Central Valley RWQCB	Pamela Creedon	Executive Officer	11020 Sun Center Drive #200	Rancho Cordova, CA 95670
Church of Jesus Christ LDS	Dennis Strube		470-520 Circle Drive	Susanville, CA 96130-5626
City of Nevada		Chairman	317 Broad Street	Nevada City, CA 95959
City of Santa Clara	Kevin Kolnowski	Senior Electric Division Manager	1601 Civic Center Drive, Suite 102	Santa Clara, CA 95050
City of Santa Clara		Legal Department, Director	1500 Warburton Ave	Santa Clara, CA 95050-3713
City of Santa Clara	Steve Hance		1705 Martin Ave	Santa Clara, CA 95050
City of Santa Clara	Damon Beck	Division Manager - Compliance	1705 Martin Ave	Santa Clara, CA 95050
City of Pasadena Dept. of Water & Power	Eric R Klinkner	Deputy General Manager	150 S. Los Robles, Suite 200	Pasadena, CA 91101
Concow Maidu Tribe of Mooretown Rancheria	Benjamin Clark	Chairperson	1 Alverda Drive	Oroville, CA 95966-9379
Department of the Interior, Office of Environmental Affairs	Office of Environmental Affairs		1849 "C" St, N.W., Room 2340 MIB	Washington, D.C. 20240-0001
El Dorado National Forest	John Phipps		100 Forni Rd	Placerville, CA 95667
EN2 Resources, Inc.	Rick Lind	President	1024 Simon Drive, Suite H	Placerville, CA 95667
EN2 Resources, Inc.	Patricia Sussman	Senior Planer	1024 Simon Drive, Suite H	Placerville, CA 95667
Estom Yumeka Tribe of Enterprise Rancheria	Glenda Nelson	Chairperson	2133 Monte Vista Ave.	Oroville, CA 95966-6968
Feather River Land Trust			P.O. Box 1826	Quincy, CA 95971
Federal Energy Regulatory Commission	Division of Hydropower Administration & Compliance		888 1st St., N.E., Room 7T-13	Washington, D.C. 20426-0001
Federal Energy Regulatory Commission	S.F. Regional Office	Acting Regional Engineer	100 1st St., Suite 2300	San Francisco, CA 94105-3084

Organization	Contact (via USPS mail)	Title	Address	City
Federal Energy Regulatory Commission	Alan Mitchnick	Senior Technical Expert	888 First Street, NE	Washington DC 20426
Federation of Fly Fishers Northern California	Dr. Mark Rockwell, D.C.	President & VP Conservation, NCCFFI	5033 Yaple Ave	Santa Barbara, CA 93111-1853
	Clay Hash/To Whom it May Concern		2814 I Street	Sacramento, CA 95816
Friends of the River	Jennifer Carville	P. Advocate	'1418 20th St; Ste A	Sacramento, CA 95811-5206
Glendale, City of	Steven G Lins	Assistant City Attorney	613 E Broadway Ste 220	Glendale, CA 91206-4308
Greenville Rancheria	Kyle Self	Chairperson	P.O. Box 279	Greenville, CA 95947-0279
Governor's Office of Policy and Research	State Of California		1400 10th St.	Sacramento, CA 95814
Hanna and Morton LLP	Norman Pedersen	Attorney	444 South Flower Street, Suite 1500	Los Angeles, CA 90071-2916
High Sierra Community Development Center	Larry Douglas		25 Commercial Street	Portola, CA 96122-9617
Law Offices of Stephan C. Volker	Stephan C. Volker, ESQ		1633 University Avenue	Berkely, CA 94703
Lessee Bucks Lake Lot #15 Mile High Road	James Pollock		3 Blue Oaks Court	Portola Valley, CA 94028-8075
'Los Angeles Department of Water & Power	Robert Pettinato		111 North Hope Street, Room 1150	Los Angeles, CA 90012
Maidu Pit River - Atsugewi	Beverly Ogle		29855 Plum Creek Road	Paynes Creek, CA 96075
Maidu Summit Consortium	Ben Cunningham	Chairperson	P.O. Box 682	Chester, CA 96020
Maidu Summit Consortium	Lorena Gorbet	Board Secretary/Treasurer	P.O. Box 682	Chester, CA 96020
Mechoopda Indian Tribe - Chico Rancheria	Dennis Ramirez	Chairperson	125 Mission Ranch Boulevard	Chico, CA 95926-2175
Meith, Soares & Sexton, LLP	Jeffrey Meith	Partner	1681 Bird Street	Oroville, CA 95965
Native American Heritage Commission			915 Capital Mall # 364	Sacramento, CA 95814
Natural Heritage Institute	Richard Roos-Collins	Legal Services Director	2140 Shattuck Avenue, Ste. 801	Berkeley, CA 94704-1229
Nevada Irrigation District	Les Nicholson	Hydro Manager	28311 Secret Town Rd	Colfax, CA 95713-9473
NOAA	Steven Edmondson	Supervisor	777 Sonoma Avenue, Room 325	Santa Rosa, CA 95404
Northern Sierra Air Quality Management District		Main Office	P.O. Box 2509	Grass Valley, CA 95945
Office of the Governor of California		Governor of California	State Capitol, Suite #1173	Sacramento, CA 95814
Pacific Forest and Watershed Lands Stewardship Council			155 Bovet Road, Suite 405	San Mateo, CA 94402
Pacific Gas and Electric Company	Randal S. Livingston	Lead Director	'245 Market St # N11E	San Francisco, CA 94105-1702
Pacific Gas and Electric Company	Matthew A Fogelson		77 Beale St	San Francisco, CA 94102
Pacific Gas and Electric Company	Annette Faraglia	Attorney	77 Beale St, B30A	San Francisco, CA 94102
Pacific Gas and Electric Company	John Sandhofner	SUPT.	20818 Black Ranch Rd	Burney, CA 960139639
Pacific Gas and Electric Company	Debbie Powell	Vice President	'245 Market St # N11E	San Francisco, CA 94105-172
Pacific Gas and Electric Company		PG&E Law Dept FERC Cases	77 Beale St	San Francisco, CA 94105
Plumas, County of	Frank Williams	Board of Supervisors	520 Main St, Ste 309	Quincy, CA 95971-9115
Plumas County Environmental Health	Jerry Sipe	Director	270 County Hospital Road, Suite 127	Quincy, CA 95971
Plumas County Flood Control and Water Conservation District	Randy Wilson	General Manager	555 Main Street	Quincy, CA 95971
Plumas County Public Works	Bob Perreault	Director	1834 E. Main St.	Quincy, CA 95971
Plumas County Sheriff's Office	Greg Hagwood	Sheriff/Coroner	1400 East Main Street	Quincy, CA 95971-9402
Redding Electric Utility '	David Authur		777 Cypress Ave	Redding, CA 96001-2718
Regional Council of Rural Counties	Lon W House		4901 Flying C Rd	Cameron Park, CA 95682
Shasta County, California		FERC Contract	'1450 Court St, Ste 308-B	'Redding, CA 96001
Siera Pacific Industries			1440 Lincoln Blvd	Lincoln, CA 95648
Southern California Edison Company	Kelly Henderson	Attorney	2244 Walnut Grove Ave.	Rosemead, CA 91770
Southern California Edison Company	Stephen M. Bowes		333 Bush St Ste 500	San Francisco, CA 94104-2828
Spiegel & McDiarmid LLP	Robert McDiarmid		1875 Eye Street, N.W., Suite 700	Washington, D.C. 20006
State Lands Commission	State Of California		100 Howe Ave	Sacramento, CA 95825
State of California Energy Commission			1516 9th Street	Sacramento, CA 95814
State of California Department of Water Resources	Oroville Facility		460 Glen Drive	Oroville, CA 95966

Organization	Contact (via USPS mail)	Title	Address	City
State Water Resources Control Board	Thomas Howard	Executive Officer	1001 I Street	Sacramento, CA 95814
Susanville Indian Rancheria	Brandon Gutierrez	Chairperson	745 Joaquin Street	Susanville, CA 96130-0204
Tehama, County of	Steve Chamblin	Board of Supervisor (District 1)	727 Oak Street	Red Bluff, CA 96080
TRC Companies, Inc.	Jeremy Pratt	Vice President/Principal Consultant	2701 First Ave, Suite 400	Seattle, WA 98121
T'si-Akim Maidu	Eileen Moon	Vice Chairperson	PO Box 1246	Grass Valley, CA 95945
Turlock Irrigation District	Michael T Brommer		333 E Canal Dr	Turlock, CA 95381-0949
Tyme Maidu Tribe - Berry Creek Rancheria	Jim Edwards	Chairperson	Five Tyme Way	Oroville, CA 95966-9115
Berry Creek Rancheria of Maidu Indians of California	Francis Steele, Jr.		5 Tyme Way	Oroville, CA. 95966
U.S. Bureau of Reclamation	Rick Woodley	Assistant Regional Director	2800 Cottage Way, m W-110	Sacramento, CA 95825-1856
U.S. Department of Agriculture		Hydro Coordinator/Forest Supervisor	19777 Greenley Rd	Sonora, CA 95370-5909
U.S. Department of Agriculture	Patrick Redmond, ESQ	Attorney-USDA Office of the General Counsel	1400 Independence Ave. SW, 'Room 3350-B	Washington, D.C. 20250
U.S. EPA Region 9	Alexis Strauss	Acting Regional Administrator	75 Hawthorne St, Mail Code: ORA-1	San Francisco, CA 94105
U.S. Department of Interior	Martin Bauer	Bureau Of Reclamation	3310 El Camino Ave Ste 300	Sacramento, CA 95821-6377
U.S. Department of Interior	Kerry O'Hara	Assistant Regional Solicitor	2800 Cottage Way, Rm. E-1712	Sacramento, CA 95825
U.S. Department of Interior	Erica Niebauer	Office of Regional Solicitor	2800 Cottage Way, W2605	Sacramento, CA 95825
U.S. Department of Interior		Field Supervisor	2800 Cottage Way	Sacramento, CA 95825
U.S. Department of Interior	Denis O'Halloran	FERC Coordinator	6000 J. Street, Placer Hall	Sacramento, CA 95819
U.S. Department of Interior		Assistant Environmental Officer	333 Bush St, Ste 515	San Francisco, CA 94104
U.S. Department of Interior	Chris Watson	Attorney-Advisor	1849 C St, NW - MS 6513	Washington, D.C. 20240
U.S. Fish & Wildlife Service		Field Supervisor/FERC Coordinator	2800 Cottage Way/Room W-2605	Sacramento, CA 94104-2829
USDA Forest Service	Judie Tartaglia	FERC/Hydro Coordinator	631 Coyote St	Nevada City, CA 94104-2832
USDA-FS PSW Region	Vicki Davis	R5 Hydropower Program Manager	1323 Club Drive	Vallejo, CA 94596
USDA-FS PSW Region	Amy J Lind	Hydropower Coordinator - Tahoe	631 Coyote St.	Nevada City, CA 95959
Washoe Tribe of Nevada and California	Wanda Batchelor	Chairperson	919 U.S. 395 South	Gardnerville, NV 89410-8968
Winston & Strawn LLP	John Whittaker		1700 K St. N.W.	Washington, D.C. 94104-2833
Yuba City Water Agency	Curt Aikens	General Manager	1220 F Street	Marysville, CA 95901

Organization	Contact (via email)
	Vivian Hansen
American Whitewater	David Steindorf
Bucks Creek Cabin Owners Association	Norman Cote
Bucks Lake Homeowners Association	Alan Glover
Bucks Lake Homeowners Association	Robert King
Bucks Lake Homeowners Association	Thomas Felesina
Bucks Lake Homeowners Association	Lucille Roberts
Bucks Lake Homeowners Association	Charles Matz
Bucks Lake Homeowners Association	John Paul Schmidt
Bucks Lake Homeowners Association	Don R Simic
Bucks Lake Homeowners Association	Tony Gariano
Bucks Lake Homeowners Association	Andrew Everett
Bucks Lake Homeowners Association	Jim Duffy
Bucks Lake Homeowners Association	John White
Bucks Lake Homeowners Association	Aaron Schmidt
Bucks Lake Homeowners Association	Michael Lewandowski
Bucks Lake Homeowners Association	Mark O'brien
Bucks Lake Homeowners Association	Brent Lamkin
Bucks Lake Homeowners Association	Kathleen Evanoff
Bucks Lake Homeowners Association	Denis Beck
Bucks Lake Homeowners Association	Rick Bell
Bucks Lake Homeowners Association	Betty Evanoff
Bucks Lake Homeowners Association	Curt Benson
Bucks Lake Homeowners Association	John Bidegain
Bucks Lake Homeowners Association	David Peters
Bucks Lake Homeowners Association	Betty Wilson
Bucks Lake Homeowners Association	Bill Bliss
Bucks Lake Homeowners Association	William B Higgins
Bucks Lake Homeowners Association	William B Higgins
Bucks Lake Homeowners Association	Gene Alexander
Bucks Lake Homeowners Association	Darlene Pitney
Bucks Lake Homeowners Association	Bonnie Bayles
Bucks Lake Homeowners Association	Rick Bosch
Bucks Lake Homeowners Association	Robert Powers
Bucks Lake Homeowners Association	Brian Wood
Bucks Lake Homeowners Association	Jerry De Cesare
Bucks Lake Homeowners Association	Louis And Rebecca Gutierrez
Bucks Lake Homeowners Association	Scott Hefner
Bucks Lake Homeowners Association	Brian Muniz
Bucks Lake Homeowners Association	Betty Walls
Bucks Lake Homeowners Association	Kevin Owens
Bucks Lake Homeowners Association	Brady Fields
Bucks Lake Homeowners Association	Carol Senate
Bucks Lake Homeowners Association	Robert Brunald
Bucks Lake Homeowners Association	Russ Chaney

Organization	Contact (via email)
Bucks Lake Homeowners Association	Charlotte Williams
Bucks Lake Homeowners Association	Michael Price
Bucks Lake Homeowners Association	Chris Pfeifer
Bucks Lake Homeowners Association	Chuck Leonhardt
Bucks Lake Homeowners Association	Cindy Heffren
Bucks Lake Homeowners Association	Tom Liddicoat
Bucks Lake Homeowners Association	Craig Ward
Bucks Lake Homeowners Association	Joe Knight
Bucks Lake Homeowners Association	Jay Grubbs
Bucks Lake Homeowners Association	Clark Becker
Bucks Lake Homeowners Association	Mike Clauss
Bucks Lake Homeowners Association	Bruce Glover
Bucks Lake Homeowners Association	Christopher Hires
Bucks Lake Homeowners Association	Cynthia Prosor
Bucks Lake Homeowners Association	Chris Pugliesi
Bucks Lake Homeowners Association	Matt Brumbaugh
Bucks Lake Homeowners Association	Nancy Mccoy
Bucks Lake Homeowners Association	Nancy Mccoy
Bucks Lake Homeowners Association	Dan Hauserman
Bucks Lake Homeowners Association	Dave Norton
Bucks Lake Homeowners Association	David Beskeen
Bucks Lake Homeowners Association	Drew Becker
Bucks Lake Homeowners Association	Richard Campbell
Bucks Lake Homeowners Association	D. Deacon Brown
Bucks Lake Homeowners Association	Nadine Winterbotham
Bucks Lake Homeowners Association	Judy Boom
Bucks Lake Homeowners Association	Debbie Theveos
Bucks Lake Homeowners Association	Jeff Norton
Bucks Lake Homeowners Association	Dick Gilchrist
Bucks Lake Homeowners Association	Dave Freiler
Bucks Lake Homeowners Association	Dave Resch
Bucks Lake Homeowners Association	Larry Brown
Bucks Lake Homeowners Association	Don R Buckman
Bucks Lake Homeowners Association	Don Beskeen
Bucks Lake Homeowners Association	Donald Ward
Bucks Lake Homeowners Association	Donna Deevries
Bucks Lake Homeowners Association	Ian Donnelly
Bucks Lake Homeowners Association	Doug Atwood
Bucks Lake Homeowners Association	Douglas Mitchell
Bucks Lake Homeowners Association	Jim Dow
Bucks Lake Homeowners Association	Durbin Sayers
Bucks Lake Homeowners Association	Athena Waite
Bucks Lake Homeowners Association	Ed Becker
Bucks Lake Homeowners Association	Beth Gleghorn
Bucks Lake Homeowners Association	Lee Watson

Organization	Contact (via email)
Bucks Lake Homeowners Association	Thelma Cross Trust
Bucks Lake Homeowners Association	Slater Cahill
Bucks Lake Homeowners Association	Meredith Byrne
Bucks Lake Homeowners Association	Roger Green
Bucks Lake Homeowners Association	Eric Ward (President)
Bucks Lake Homeowners Association	Clint Jewett
Bucks Lake Homeowners Association	Roberta McCoy Family Trust
Bucks Lake Homeowners Association	William Fiedler
Bucks Lake Homeowners Association	Jeff Iversen
Bucks Lake Homeowners Association	Frank Morgan
Bucks Lake Homeowners Association	Fred Woell
Bucks Lake Homeowners Association	Gary Westover
Bucks Lake Homeowners Association	Gordon Vaughan
Bucks Lake Homeowners Association	John Lynch Iii
Bucks Lake Homeowners Association	Dell Brown
Bucks Lake Homeowners Association	Gerald Stotler
Bucks Lake Homeowners Association	John Morse
Bucks Lake Homeowners Association	George Campbell
Bucks Lake Homeowners Association	Ronald Girard
Bucks Lake Homeowners Association	Ed Johnston
Bucks Lake Homeowners Association	Glenn Johnston
Bucks Lake Homeowners Association	George Lambrix
Bucks Lake Homeowners Association	George Lambrix
Bucks Lake Homeowners Association	Brian Gleghorn
Bucks Lake Homeowners Association	Gloria Maddox
Bucks Lake Homeowners Association	Gernert Lorenzen
Bucks Lake Homeowners Association	Gary Patburg
Bucks Lake Homeowners Association	Kathy Henricks
Bucks Lake Homeowners Association	Kathy Henricks
Bucks Lake Homeowners Association	Richard Grein
Bucks Lake Homeowners Association	Chaney Family Trust
Bucks Lake Homeowners Association	Roger Gurr
Bucks Lake Homeowners Association	Eileen Hahn
Bucks Lake Homeowners Association	Gene Harris
Bucks Lake Homeowners Association	Mark Harris
Bucks Lake Homeowners Association	John Hilton
Bucks Lake Homeowners Association	Art Hurley
Bucks Lake Homeowners Association	Art Hurley
Bucks Lake Homeowners Association	Mark Ingvaldsen
Bucks Lake Homeowners Association	Rich Casarotti
Bucks Lake Homeowners Association	James Duffy
Bucks Lake Homeowners Association	Jane Miller
Bucks Lake Homeowners Association	Jane Higgins Hauser
Bucks Lake Homeowners Association	Janice Long
Bucks Lake Homeowners Association	Janice E Smith

Organization	Contact (via email)
Bucks Lake Homeowners Association	Tony Vanneman
Bucks Lake Homeowners Association	Jack Hires
Bucks Lake Homeowners Association	Jeff Bryan
Bucks Lake Homeowners Association	c/o Jane Cleland Starnes Family Trust
Bucks Lake Homeowners Association	Mike Starnes
Bucks Lake Homeowners Association	Jim Morris
Bucks Lake Homeowners Association	Jim Donnelly
Bucks Lake Homeowners Association	Jamie Depacpe
Bucks Lake Homeowners Association	Kurt Maier
Bucks Lake Homeowners Association	Krista Looza
Bucks Lake Homeowners Association	Jim Francis
Bucks Lake Homeowners Association	Hilary Hedman
Bucks Lake Homeowners Association	John Lynch Iv
Bucks Lake Homeowners Association	Jim Rutherford
Bucks Lake Homeowners Association	James Kutzer
Bucks Lake Homeowners Association	David Poroli
Bucks Lake Homeowners Association	Tony Turkovich
Bucks Lake Homeowners Association	Joan Cronk Mccutcheon Trust
Bucks Lake Homeowners Association	Jon Chaney
Bucks Lake Homeowners Association	Michael Roth
Bucks Lake Homeowners Association	June Cherny
Bucks Lake Homeowners Association	Mollia Jewett
Bucks Lake Homeowners Association	John Thompson
Bucks Lake Homeowners Association	Kyle Ingvaldsen
Bucks Lake Homeowners Association	Dave Coulthard
Bucks Lake Homeowners Association	Don B Moran
Bucks Lake Homeowners Association	Kenneth Willits
Bucks Lake Homeowners Association	Patricia Heidman
Bucks Lake Homeowners Association	Eric Lacombe
Bucks Lake Homeowners Association	Kent Mannee
Bucks Lake Homeowners Association	Karen Handy
Bucks Lake Homeowners Association	Karen Pugliesi
Bucks Lake Homeowners Association	Lori Harris Allen
Bucks Lake Homeowners Association	Lawrence Price
Bucks Lake Homeowners Association	Lawrence Price
Bucks Lake Homeowners Association	Larry Hamman
Bucks Lake Homeowners Association	Larry Hamman
Bucks Lake Homeowners Association	Laurie Markland
Bucks Lake Homeowners Association	Lyle Foster
Bucks Lake Homeowners Association	Kenneth Lenhardt
Bucks Lake Homeowners Association	Pete Ramsey
Bucks Lake Homeowners Association	Dave Lingle
Bucks Lake Homeowners Association	Rob Lytle
Bucks Lake Homeowners Association	Rob Lytle
Bucks Lake Homeowners Association	Latroy Justeson

Organization	Contact (via email)
Bucks Lake Homeowners Association	Lance Benson
Bucks Lake Homeowners Association	Steve Gorman
Bucks Lake Homeowners Association	Bill Spiller
Bucks Lake Homeowners Association	Jeanie Sorensen
Bucks Lake Homeowners Association	Mary Lynn Machabee
Bucks Lake Homeowners Association	Dan Whalen
Bucks Lake Homeowners Association	Greg Smith
Bucks Lake Homeowners Association	Riki Pollock
Bucks Lake Homeowners Association	Marjorie Sovereign
Bucks Lake Homeowners Association	Marty Piccinini
Bucks Lake Homeowners Association	Raymond Thomma
Bucks Lake Homeowners Association	Manuel Massa Jr.
Bucks Lake Homeowners Association	Mel Green
Bucks Lake Homeowners Association	Michael Newsom
Bucks Lake Homeowners Association	Mike Seeley
Bucks Lake Homeowners Association	Michael Hoover
Bucks Lake Homeowners Association	Bill Mills
Bucks Lake Homeowners Association	Mike Wiechers
Bucks Lake Homeowners Association	Ryan McDougal
Bucks Lake Homeowners Association	Cynthia Montes
Bucks Lake Homeowners Association	c/o Harland & Carolyn Morley Morley Family Trust
Bucks Lake Homeowners Association	Mark Pawelczyk
Bucks Lake Homeowners Association	Tres Hobbie
Bucks Lake Homeowners Association	Mark Mantle
Bucks Lake Homeowners Association	Mike Vanneman
Bucks Lake Homeowners Association	Michael Wright
Bucks Lake Homeowners Association	Dennis Noble
Bucks Lake Homeowners Association	Dennis Noble
Bucks Lake Homeowners Association	Neal Baker
Bucks Lake Homeowners Association	Nancy Fox
Bucks Lake Homeowners Association	William Nichols
Bucks Lake Homeowners Association	Nancy Lambrix
Bucks Lake Homeowners Association	Norman Jacobson
Bucks Lake Homeowners Association	Norm Sovereign
Bucks Lake Homeowners Association	E Dan O'Connell
Bucks Lake Homeowners Association	Ola Gail Garrett
Bucks Lake Homeowners Association	Gary Olson
Bucks Lake Homeowners Association	James Omand
Bucks Lake Homeowners Association	Wayne Smith
Bucks Lake Homeowners Association	Barry O'Sullivan
Bucks Lake Homeowners Association	Paul Glock
Bucks Lake Homeowners Association	Randy Dumler
Bucks Lake Homeowners Association	Harold Schneider
Bucks Lake Homeowners Association	Patrick Starr
Bucks Lake Homeowners Association	Pat Penning

Organization	Contact (via email)
Bucks Lake Homeowners Association	Pat Leonhardt
Bucks Lake Homeowners Association	Cliff Scheer
Bucks Lake Homeowners Association	Kyle Felker
Bucks Lake Homeowners Association	Richard Wilbur
Bucks Lake Homeowners Association	Ray Pfeifer
Bucks Lake Homeowners Association	Ron Cooke
Bucks Lake Homeowners Association	Jani And Rick Frey
Bucks Lake Homeowners Association	Roslyn M. Zimmerman
Bucks Lake Homeowners Association	Richard Flanigan
Bucks Lake Homeowners Association	Robert Sawyer
Bucks Lake Homeowners Association	Richard Hobbie
Bucks Lake Homeowners Association	Jeff Robinson
Bucks Lake Homeowners Association	Alice Gleghorn Rothlind
Bucks Lake Homeowners Association	c/o Richard & Holly Schreiber Schreiber Family Trust
Bucks Lake Homeowners Association	Russ Baruh
Bucks Lake Homeowners Association	Rusty Brines
Bucks Lake Homeowners Association	Dick Loomis
Bucks Lake Homeowners Association	Alexandra Loew
Bucks Lake Homeowners Association	Alexandra Loew
Bucks Lake Homeowners Association	Dan Schreiber
Bucks Lake Homeowners Association	Steven Spriggs
Bucks Lake Homeowners Association	Scott Stanfield
Bucks Lake Homeowners Association	George Gleghorn
Bucks Lake Homeowners Association	Frank Cadek
Bucks Lake Homeowners Association	L. John Sheppard
Bucks Lake Homeowners Association	James Sligar
Bucks Lake Homeowners Association	Bruce Smart
Bucks Lake Homeowners Association	Steve Smyth
Bucks Lake Homeowners Association	Fred Ludemann
Bucks Lake Homeowners Association	Alan James
Bucks Lake Homeowners Association	Roger Steward
Bucks Lake Homeowners Association	Mike Pomeroy
Bucks Lake Homeowners Association	Stephen Morrison
Bucks Lake Homeowners Association	Tom Fogarty
Bucks Lake Homeowners Association	Tad Bonner
Bucks Lake Homeowners Association	Mike Takahara
Bucks Lake Homeowners Association	Donald Chambers
Bucks Lake Homeowners Association	Doug Arnold
Bucks Lake Homeowners Association	Teresa Biagini
Bucks Lake Homeowners Association	Tim Gallagher
Bucks Lake Homeowners Association	Merle Keating
Bucks Lake Homeowners Association	Ted Hoffman
Bucks Lake Homeowners Association	Timothy Johnson
Bucks Lake Homeowners Association	Timothy Johnson
Bucks Lake Homeowners Association	John Harris

Organization	Contact (via email)
Bucks Lake Homeowners Association	Linda Pitlock
Bucks Lake Homeowners Association	Todd Bullock
Bucks Lake Homeowners Association	Gail McCoy
Bucks Lake Homeowners Association	Tom Green
Bucks Lake Homeowners Association	Ila Mitchell
Bucks Lake Homeowners Association	Ted Harris
Bucks Lake Homeowners Association	Jeff And Cheryl Armstrong
Bucks Lake Homeowners Association	Jeff And Cheryl Armstrong
Bucks Lake Homeowners Association	Irene Amodei
Bucks Lake Homeowners Association	Warren Grandall
Bucks Lake Homeowners Association	William A. Nicholau
Bucks Lake Homeowners Association	William A. Nicholau
Bucks Lake Homeowners Association	Terry Williams
Bucks Lake Homeowners Association	Sheri Larue
Bucks Lake Homeowners Association	Sheri Larue
Bucks Lake Homeowners Association	Greg Vaghaw
Bucks Lake Snow Drifters	
Bucks Lakeshore Resort, LLCDBA Bucks Lakeshore Resort DBA Bucks Lake Marina	Dewitt And Kimberly Henderson
Bureau of Indian Affairs	Troy Burdick
Bureau of Land Management	Deanne Kidd
Bureau of Land Management	Jim EicherAssociate Field Manager
Bureau of Land Management, Eagle Lake Field Office	Daniel Ryan
California Department of Fish and Wildlife	Beth Lawson
California Department of Fish and Wildlife	Laurie Hatton
California Department of Fish and Wildlife	Marylisa Lynch
California Department of Fish and Wildlife	Sean Hoobler
California Department of Fish and Wildlife	Tina Bartlett
California Department of Fish and Wildlife	Anna Allison
California Regional Water Quality Control Board	Scott Zaitz
California Sportfishing Protection Alliance	Chris Shutes
California Trout, Inc.	Curtis Knight
Camp Timberwolf(Boy Scout Camp)	Michael Hulbert
Camp Timberwolf(Boy Scout Camp)	Rich Holden
Cardno	Coralie Allen
Cardno	Stacy Evans
Cardno/ERM	Steve Nevares
City of Santa Clara	Steve Hance
City of Santa Clara	Damon Beck
City of Santa Clara, Silicon Valley Power	Ken Kohtz
Department of InteriorNational Park Service	Stephen Bowes
Duncan, Weinberg, Genzer & Pembroke	Joshua Adrian
Duncan, Weinberg, Genzer & Pembroke	Don Clarke
EN2 Resources, Inc.	Rick Lind
Enterprise Rancheria of Maidu Indians	Art Angle
ERM	Jillian Roach

Organization	Contact (via email)
Estom Yumeka Tribe - Enterprise Rancheria	Glenda Nelson
Feather Publishing	Debra Moore
Federation of Fly Fishers Northern California	Dr. Mark Rockwell, D.C.
Federal Energy Regulatory Commission	Kyle Olcott
Federal Energy Regulatory Commission	Evan Williams
Friends of the River	Bob Center
GEI	Ginger Gillin
Greenville Rancheria	Kyle Self
National Park Service	Barbara Rice
National Oceanic and Atmospheric Administration	Larry Thompson
NOAA Fisheries, Southwest Region	William Foster
Office of Congressman Doug LaMalfa	Shane Starr
Pacific Gas & Electric Company	Alan Soneda
Pacific Gas & Electric Company	Andie Herman
Pacific Gas & Electric Company	Annette Faraglia
Pacific Gas & Electric Company	Jesus Viscarra
Pacific Gas & Electric Company	Matt Frasz
Pacific Gas & Electric Company	Steve Bauman
Pacific Gas & Electric Company	Matt Harper
Plumas County	Craig Settlemire
Plumas County	Leah Wills
Plumas County - District 3	Sherrie Thrall
Plumas County Board of Supervisors	Lori Simpson
Plumas County Museum	Scott Lawson
Plumas County Planning Services	Randy Wilson
Rainwater & Associates	Marie Rainwater
Regional Water Quality Control Board	Guy Chetelat
State Water Resources Control Board	Nathan Fisch
Stillwater Sciences	Kelleigh Crowe
Stillwater Sciences	Russell Liebig
Stillwater Sciences	Scott Wilcox
Stillwater Sciences	Ken Jarrett
Stillwater Sciences	Steven Wood
Susanville Indian Rancheria	~~Stacy Dixon~~ Brandon Gutierrez
The Louis Berger Group, Inc.	Carol Efird
TRC Solutions	Jeremy Pratt
TRC Solutions	Jeff Deason
TRC Solutions	Shannon Luoma
Trout Unlimited	Brian J. Johnson, Esq.
T'si-Akim Maidu	Grayson Coney
USDA, Forest Service	Amy Lind
USDA, Forest Service	Dawn Alvarez
USDA, Forest Service	Colin Dillingham
USDA, Forest Service	Tina HopkinsPlumas National Forest

Organization	Contact (via email)
USDA, Forest Service	Christopher Frappier
USDA, Forest Service	Dennis Smith
USDA, Forest Service	Jim Belsher-Howe
USDA, Forest Service	Micki Smith
USDA, Forest Service	Terri Simon-Jackson
USDA, Forest Service	Erika Brenzovich
USDA, Forest Service	Herman Wendell
USDA, Forest Service	Oswaldo Angulo
USDA, Forest Service	Ryan K Bauer
USDA, Forest Service	Dan Elliott
USDA, Forest Service	Lawrence Janeway
USDA, Forest Service	James M Johnson
USDA, Forest Service	Wade A McMaster
USDA, Forest Service	Jamie J Moore
USDA, Forest Service	JoAnna Arroyo
USDA, Forest Service	Kurt A Sable
USDA, Forest Service	Dan Teater
USDA, Forest Service, Plumas National Forest	Daniel Lovato
USFWS	Alison Willy
USFWS	A. Leigh Bartoo
Water and Power Law Group PC	Richard Roos-Collins, Esq.
	Polly Allen
	Katie Simpson
	Ben Stookesberry
Federal Energy Regulatory Commission	Kimberly Bose
Federal Energy Regulatory Commission	Alan Mitchnick

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655343

The following person(s) is (are) doing business as:
LOVE NAILS 2807 EL CAMINO REAL, SANTA CLARA, CA 95051
The name and residence address of the registrant(s) is (are):
STEVE HANG 3955 VISTAPARK DRIVE, APT 122, SAN JOSE, CA 95136
This business is owned by an individual. Registrant began transacting business under the fictitious business name(s) listed above on: 06/01/2019.
/s/ STEVE HANG
This statement was filed with the County Clerk of Santa Clara County on 06/03/2019.
+Pub: 6/19, 6/26, 7/3, 7/10/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655521

The following person(s) is (are) doing business as:
SMARTIES ARTS & CRAFTS 1525 CALLE DE STUARDA, SAN JOSE, CA 95118
The name and residence address of the registrant(s) is (are):
BRIAN SMART 1525 CALLE DE STUARDA, SAN JOSE, CA 95118
LAURA SMART 1525 CALLE DE STUARDA, SAN JOSE, CA 95118
This business is owned by a general partnership. Registrant began transacting business under the fictitious business name(s) listed above on: 07/09/2014.
Type of Filing: Refile (Change(s) in facts from previous filing) - Previous File # FBN594019
/s/ BRIAN SMART
This statement was filed with the County Clerk of Santa Clara County on 06/05/2019.
+Pub: 6/19, 6/26, 7/3, 7/10/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655712

The following person(s) is (are) doing business as:
INDIVIDUALLY YOU COACHING 1553 VISTA CLUB CIRCLE APT 303, SANTA CLARA, CA 95054
The name and residence address of the registrant(s) is (are):
JANE BUTLER 1553 VISTA CLUB CIRCLE APT. 303, SANTA CLARA, CA 95054
This business is owned by an individual. Registrant began transacting business under the fictitious business name(s) listed above on: NOT APPLICABLE.
/s/ JANE BUTLER
This statement was filed with the County Clerk of Santa Clara County on 06/11/2019.
+Pub: 6/19, 6/26, 7/3, 7/10/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 654966

The following person(s) is (are) doing business as:
RUBY CLOUD INVESTMENT HOLDINGS 12153 ATRIUM DRIVE, SARATOGA, CA 95070
The name and residence address of the registrant(s) is (are):
HERMAN CHANG 12153 ATRIUM DRIVE, SARATOGA, CA 95070
This business is owned by an individual. Registrant began transacting business under the fictitious business name(s) listed above on: 05/17/2019.
/s/ HERMAN CHANG
This statement was filed with the County Clerk of Santa Clara County on 05/17/2019.
+Pub: 6/19, 6/26, 7/3, 7/10/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 654918

The following person(s) is (are) doing business as:
POSTALANNEX 123 EAST SAN CARLOS STREET, SAN JOSE, CA 95112
The name and residence address of the registrant(s) is (are):
BAPA LLC 1335 COLUMBUS DRIVE, MILPITAS, CA 95035
This business is owned by a limited liability company. Registrant began transacting business under the fictitious business name(s) listed above on: NOT APPLICABLE.
Type of Filing: Refile (Change(s) in facts from previous filing) - Previous File # FBN646892
/s/ MAHENDRA PATEL, MANAGER
This statement was filed with the County Clerk of Santa Clara County on 05/17/2019.
+Pub: 6/19, 6/26, 7/3, 7/10/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655279

The following person(s) is (are) doing business as:
VICTORIA LIQUORS AND FOOD CORP. 22 SOUTH PARK VICTORIA DRIVE, MILPITAS, CA 95035
The name and residence address of the registrant(s) is (are):
VICTORIA LIQUORS AND FOOD CORP. 22 SOUTH PARK VICTORIA DRIVE, MILPITAS, CA 95035
This business is owned by a corporation. Registrant began transacting business under the fictitious business name(s) listed above on: NOT APPLICABLE.
/s/ RAGHUBIR ATWAL, CEO
This statement was filed with the County Clerk of Santa Clara County on 05/29/2019.
+Pub: 6/19, 6/26, 7/3, 7/10/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655790

The following person(s) is (are) doing business as:
KIDS THAT CARE CLUB 1042 LEWIS ST., SANTA CLARA, CA 95050
The name and residence address of the registrant(s) is (are):
ROSE ACADEMIES, INC. 1042 LEWIS ST., SANTA CLARA, CA 95050
This business is owned by a corporation. Registrant began transacting business under the fictitious business name(s) listed above on: 07/30/2014.
Type of Filing: Refile (Change(s) in facts from previous filing) - Previous File # FBN595367
/s/ SUSAN LINDA STASI, CEO
This statement was filed with the County Clerk of Santa Clara County on 06/13/2019.
+Pub: 6/19, 6/26, 7/3, 7/10/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655809

The following person(s) is (are) doing business as:
LANTERA EL JINETE 30 SAN JOSE AVE., SAN JOSE, CA 95125
The name and residence address of the registrant(s) is (are):
PATRICIA OSUNA DE MANZO 264 MERCY SPRINGS RD, LOS BANOS, CA 95356
This business is owned by an individual. Registrant began transacting business under the fictitious business name(s) listed above on: 06/13/2019.
/s/ PATRICIA OSUNA DE MANZO
This statement was filed with the County Clerk of Santa Clara County on 06/13/2019.
+Pub: 6/26, 7/3, 7/10, 7/17/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655442

The following person(s) is (are) doing business as:
JIGG 1786 TAHOE DR., MILPITAS, CA 95035
The name and residence address of the registrant(s) is (are):
MICHAEL PHAM 1786 TAHOE DR., MILPITAS, CA 95035
This business is owned by an individual. Registrant began transacting business under the fictitious business name(s) listed above on: 06/03/2019.
/s/ MICHAEL PHAM
This statement was filed with the County Clerk of Santa Clara County on 06/03/2019.
+Pub: 6/26, 7/3, 7/10, 7/17/2019

NOTICE OF TRUSTEE'S SALE TS No.: MAED.077-035 APN: 269-31-056 Title Order No.: 190656275-CA-VOI NOTE: THERE IS A SUMMARY OF THE INFORMATION IN THIS DOCUMENT ATTACHED. YOU ARE IN DEFAULT UNDER A DEED OF TRUST DATED 2/19/2015, UNLESS YOU TAKE ACTION TO PROTECT YOUR PROPERTY, IT MAY BE SOLD AT A PUBLIC SALE. IF YOU NEED AN EXPLANATION OF THE NATURE OF THE PROCEEDING AGAINST YOU, YOU SHOULD CONTACT A LAWYER. A public auction sale to the highest bidder for cash, cashier's check drawn on a state or national bank, check drawn by a state or federal credit union, or a check drawn by a state or federal savings and loan association, or savings association, or savings bank specified in Section 5102 of the Financial Code and authorized to do business in this state will be held by the duly appointed trustee as shown below, of all right, title, and interest conveyed to and now held by the trustee in the hereinafter described property under and pursuant to a Deed of Trust described below. The sale will be made, but without covenant or warranty, expressed or implied, regarding title, possession, or encumbrances, to pay the remaining principal sum of the note(s) secured by the Deed of Trust, with interest and late charges thereon, as provided in the note(s), advances, under the terms of the Deed of Trust, interest thereon, fees, charges and expenses of the Trustee for the total amount (at the time of the initial publication of the Notice of Sale) reasonably estimated to be set forth below. The amount may be greater on the day of sale. Trustor: JENNIFER N BROWN, A SINGLE WOMAN Duly Appointed Trustee: PROBER AND RAPHAEL, ALC Recorded 2/25/2015 as Instrument No. 22862580 in book N/A, page N/A of Official Records in the office of the Recorder of Santa Clara County, California, Date of Sale: 7/17/2019 at 10:00 AM Place of Sale: At the Gated North Market Street entrance of the Superior Courthouse, 191 N. First Street, San Jose, CA 95111 Amount of unpaid balance and other charges: \$298,114.83 Trust Address or other common designation of real property: 689 MORENO LN SANTA CLARA, California 95050 The undersigned Trustee disclaims any liability for any incorrectness of the street address or other common designation, if any, shown above. If no street address or other common designation is shown, directions to the location of the property may be obtained by sending a written request to the beneficiary within 10 days of the date of first publication of this Notice of Sale. NOTICE TO POTENTIAL BIDDERS: If you are considering bidding on this property lien, you should understand that there are risks involved in bidding at a trustee auction. You will be bidding on a lien, not on the property itself. Placing the highest bid at a trustee auction does not automatically entitle you to free and clear ownership of the property. You should also be aware that the lien being auctioned off may be a junior lien. If you are the highest bidder at the auction, you are or may be responsible for paying off all liens senior to the lien being auctioned off, before you can receive clear title to the property. You are encouraged to investigate the existence, priority, and size of outstanding liens that may exist on this property by contacting the county recorder's office or a title insurance company, either of which may charge you a fee for this information. If you consult either of these resources, you should be aware that the same lender may hold more than one mortgage or deed of trust on the property. NOTICE TO PROPERTY OWNER: The sale date shown on this notice of sale may be postponed one or more times by the mortgagee, beneficiary, trustee, or a court, pursuant to Section 2924g of the California Civil Code. The law requires that information about trustee sale postponements be made available to you and to the public, as a courtesy to those not present at the sale. If you wish to learn whether your sale date has been postponed, and, if applicable, the rescheduled time and date for the sale of this property, you may call (714) 730-2727 or visit this Internet Web site www.lpsasp.com, using the file number assigned to this case MAED.077-035. Information about postponements that are very short in duration or that occur close in time to the scheduled sale may not immediately be reflected in the telephone information or on the Internet Web site. The best way to verify postponement information is to attend the scheduled sale. Date: 6/11/2019 PROBER AND RAPHAEL, ALC 20750 Ventura Blvd. #100 Woodland Hills, California 91364 Sale Line: (714) 730-2727 Candy Herzog, Trustee Sale Officer A-FN4696551 06/26/2019, 07/03/2019, 07/10/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655424

The following person(s) is (are) doing business as:
TIME2ACCESSORIZE 596 DE GUIGNE DR. APT 100, SUNNYVALE, CA 94085
The name and residence address of the registrant(s) is (are):
NURDAN YAPANEL 596 DE GUIGNE DR. APT 100, SUNNYVALE, CA 94085
This business is owned by an individual. Registrant began transacting business under the fictitious business name(s) listed above on: 12/01/2011.
/s/ NURDAN YAPANEL
This statement was filed with the County Clerk of Santa Clara County on 05/31/2019.
+Pub: 6/26, 7/3, 7/10, 7/17/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655218

The following person(s) is (are) doing business as:
ARGONAUT DENTAL 12860 SARATOGA-SUNNYVALE RD., SARATOGA, CA 95070
The name and residence address of the registrant(s) is (are):
PARULAGGARWAL 12860 SARATOGA-SUNNYVALE RD., SARATOGA, CA 95070
This business is owned by an individual. Registrant began transacting business under the fictitious business name(s) listed above on: 02/11/2019.
/s/ PARUL AGGARWAL
This statement was filed with the County Clerk of Santa Clara County on 05/24/2019.
+Pub: 6/26, 7/3, 7/10, 7/17/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 654913

The following person(s) is (are) doing business as:
BELLA'S CLEANING SERVICES 113 24TH STREET, SAN JOSE, CA 95116
The name and residence address of the registrant(s) is (are):
ANA LILIA ALVIZO RODRIGUEZ 113 24TH STREET, SAN JOSE, CA 95116
This business is owned by an individual. Registrant began transacting business under the fictitious business name(s) listed above on: 05/06/2019.
Type of Filing: Refile (Change(s) in facts from previous filing) - Previous File # FBN654496
/s/ ANA LILIA ALVIZO RODRIGUEZ
This statement was filed with the County Clerk of Santa Clara County on 05/16/2019.
+Pub: 6/26, 7/3, 7/10, 7/17/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655266

The following person(s) is (are) doing business as:
SHEAR IMPRESSIONS 1562 HALFORD AVE., SANTA CLARA, CA 95051
The name and residence address of the registrant(s) is (are):
TRANG HOANG TRAN 3186 CHILLUM COURT, SAN JOSE, CA 95148
This business is owned by an individual. Registrant began transacting business under the fictitious business name(s) listed above on: NOT APPLICABLE.
/s/ TRANG HOANG TRAN
This statement was filed with the County Clerk of Santa Clara County on 05/29/2019.
+Pub: 6/26, 7/3, 7/10, 7/17/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655340

The following person(s) is (are) doing business as:
GREEN FOOTHILLS 3921 E. BAYSHORE RD., PALO ALTO, CA 94303
The name and residence address of the registrant(s) is (are):
GREEN FOOTHILLS FOUNDATION E. BAYSHORE RD., PALO ALTO, CA 94303
This business is owned by a corporation. Registrant began transacting business under the fictitious business name(s) listed above on: NOT APPLICABLE.
/s/ MEGAN FLUKE, EXECUTIVE DIRECTOR
This statement was filed with the County Clerk of Santa Clara County on 05/30/2019.
+Pub: 6/26, 7/3, 7/10, 7/17/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655720

The following person(s) is (are) doing business as:
DANIFIT STRENGTH & CONDITIONING TRAINING 980 E. SANTA CLARA ST., SAN JOSE, CA 95116
The name and residence address of the registrant(s) is (are):
DANIELA NARANJO MEDINA 376 S. BAYWOOD AVE., SAN JOSE, CA 95128
This business is owned by an individual. Registrant began transacting business under the fictitious business name(s) listed above on: NOT APPLICABLE.
/s/ DANIELA NARANJO MEDINA
This statement was filed with the County Clerk of Santa Clara County on 06/11/2019.
+Pub: 6/26, 7/3, 7/10, 7/17/2019

FICTITIOUS BUSINESS NAME STATEMENT FILE# 655875

The following person(s) is (are) doing business as:
(1) A360
(2) ABUNDANCE DIGITAL
(3) ABUNDANCE 360
(4) A360 DIGITAL
2831 MISSION COLLEGE BLVD., SANTA CLARA, CA 95054
The name and residence address of the registrant(s) is (are):
SINGULARITY EDUCATION HOLDINGS BUILDING 20 S. AKRON ROAD, MS 20-1, MOFFETT FIELD, CA 94035
This business is owned by a corporation. Registrant began transacting business under the fictitious business name(s) listed above on: 08/10/2018.
/s/ ROB NAIL, CEO
This statement was filed with the County Clerk of Santa Clara County on 06/17/2019.
+Pub: 6/26, 7/3, 7/10, 7/17/2019

**PUBLIC NOTICE
City of Santa Clara****Bucks Creek Hydroelectric Project Relicensing****Notice of the City of Santa Clara's Intent to Rely on FERC's Environmental Impact Statement, in Combination with a Supplemental Analysis Prepared by the City of Santa Clara, to Satisfy CEQA****Notice of the Availability of FERC's Draft Environmental Impact Statement for Relicensing of Bucks Creek Hydroelectric Project (FERC Project No. 619).**

In accordance with State CEQA Guidelines §15221 and §15225, the City of Santa Clara (City) (operating as Silicon Valley Power or SVP) intends to rely on the Environmental Impact Statement (EIS) prepared by the Federal Energy Regulatory Commission (FERC or Commission) in combination with a supplemental analysis to be prepared by the City to meet the requirement of the California Environmental Quality Act (CEQA). Compliance with CEQA is necessary for the City's future discretionary action regarding acceptance of the new license order anticipated to be issued by FERC in early 2021 for the continued operation and maintenance of the Bucks Creek Project. The public input and review process for the Project was initiated with two public scoping meetings on February 11, 2014 at 10am and at 7pm at the Holiday Inn in Chico, California. The City formally announced its CEQA Lead Agency role via letter to stakeholders on June 23, 2017, with a follow-up announcement to additional stakeholders on February 13, 2019.

PROJECT DESCRIPTION AND LOCATION

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, including a 4.2-mile-long, 115-kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. There are no Government listed hazardous waste or materials sites within the project boundary.

COMMENT PERIOD

On June 14, 2019, FERC issued a Draft Environmental Impact Statement (DEIS) for the Bucks Creek Project, which was prepared in accordance with the National Environmental Policy Act (NEPA) of 1969 and FERC's regulations. The comment period on FERC's DEIS began on June 14, 2019. All comments on the DEIS must be filed by Tuesday, August 13, 2019 and should reference FERC Project No. 619-164. Comments may be filed using FERC's eFiling system at <http://www.ferc.gov/docs-filing/efiling.asp>. Commenters must include their name and contact information at the end of any comments. In lieu of electronic filing, commenters may submit paper comments to: Secretary, Federal Energy Regulatory Commission, 888 First Street, NE, Washington, DC 20426. Include docket number P-619-164 on the first page of any filing. Those with comments particular to CEQA or the role of the City as CEQA Lead Agency may submit comments to the City of Santa Clara. Email comments may be sent to RBrilliot@SantaClaraCA.gov. Include Bucks Creek Project in the subject line, attach comments in MS Word or Adobe PDF format, and include the commenter's U.S. Postal Service mailing address. Paper comments regarding CEQA may be submitted to City of Santa Clara. Bucks Creek Project, 1500 Warburton Ave. Santa Clara, CA 95050. Attention: Reena Brilliot, Planning Manager.

SIGNIFICANT EFFECTS

The DEIS describes the primary issues associated with licensing the proposed Project as the effects of continued project operation on geology and soils, water quality, fishery resources, terrestrial resources, threatened and endangered species, recreation and land use, and cultural resources. The DEIS includes recommended environmental measures that would adequately protect and enhance environmental resources affected by the proposed project. Project impacts will be further evaluated under CEQA in a draft supplemental analysis.

DOCUMENT AVAILABILITY

A copy of the DEIS is available for review in the Commission's Public Reference Branch, Room 2A, located at 888 First Street, N.E., Washington, DC 20426. The DEIS also may be viewed on the Commission's website at <http://www.ferc.gov> under the eLibrary link. Enter the docket number P-619 in the docket number field to access the document. In addition, a copy of the DEIS is available for review on the City's website at <http://www.siliconvalleypower.com/svp-and-community/projects> and at the following locations: City of Santa Clara, 1500 Warburton Avenue, Santa Clara, CA 95050, Silicon Valley Power Offices, West Wing: Plumas County Library, 445 Jackson Street, Quincy, CA 95971; Chico Branch Library, 1108 Sherman Avenue, Chico, CA 95926; Oroville Branch Library, 1820 Mitchell Avenue, Oroville, CA 95966.

CONTACT

For questions regarding FERC's DEIS contact Alan Mitchnick at (202) 502-6074 or at alan.mitchnick@ferc.gov. For questions and comments regarding the City's intent to rely on FERC's DEIS, in combination with a supplemental analysis to satisfy CEQA, please contact Reena Brilliot, Planning Manager, City of Santa Clara, 1500 Warburton Ave. Santa Clara, CA 95050. Phone: 408-615-2452. Email: RBrilliot@SantaClaraCA.gov
Pub: 6/26/2019

PUBLIC NOTICE**City of Santa Clara****Bucks Creek Hydroelectric Project Relicensing****Notice of the City of Santa Clara's Intent to Rely on FERC's Environmental Impact Statement, in Combination with a Supplemental Analysis****Prepared by the City of Santa Clara, to Satisfy CEQA Notice of the Availability of FERC's Draft Environmental Impact****Statement for Relicensing of Bucks Creek Hydroelectric Project (FERC Project No. 619).**

In accordance with State CEQA Guidelines §15221 and §15225, the City of Santa Clara (City) (operating as Silicon Valley Power or SVP) intends to rely on the Environmental Impact Statement (EIS) prepared by the Federal Energy Regulatory Commission (FERC or Commission) in combination with a supplemental analysis to be prepared by the City to meet the requirement of the California Environmental Quality Act (CEQA). Compliance with CEQA is necessary for the City's future discretionary action regarding acceptance of the new license order anticipated to be issued by FERC in early 2021 for the continued operation and maintenance of the Bucks Creek Project. The public input and review process for the Project was initiated with two public scoping meetings on February 11, 2014 at 10am and at 7pm at the Holiday Inn in Chico, California. The City formally announced its CEQA Lead Agency role via letter to stakeholders on June 23, 2017, with a follow-up announcement to additional stakeholders on February 13, 2019.

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Advertising Order Confirmation

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06/27/19 12:10:14PM

Page 4

Clara. Email comments may be sent to JDavidson@santaclaraca.gov. Include Bucks Creek Project in the subject line, attach comments in MS Word or Adobe PDF format, and include the commenter's U.S. Postal Service mailing address. Paper comments regarding CEQA may be submitted to City of Santa Clara, Bucks Creek Project, 1500 Warburton Ave. Santa Clara, CA 95050. Attention: John Davidson, Principal Planner.

SIGNIFICANT EFFECTS

The DEIS describes the primary issues associated with licensing the proposed Project as the effects of continued project operation on geology and soils, water quality, fishery resources, terrestrial resources, threatened and endangered species, recreation and land use, and cultural resources. The DEIS includes recommended environmental measures that would adequately protect and enhance environmental resources affected by the proposed project. Project impacts will be further evaluated under CEQA in a draft supplemental analysis.

DOCUMENT AVAILABILITY

A copy of the DEIS is available for review in the Commission's Public Reference Branch, Room 2A, located at 888 First Street, N.E., Washington, DC 20426. The DEIS also may be viewed on the Commission's website at <http://www.ferc.gov> under the eLibrary link. Enter the docket number P-619 in the docket number field to access the document. In addition, a copy of the DEIS is available for review on the City's website at <http://www.siliconvalleypower.com/svp-and-community/projects> and at the following locations: City of Santa Clara, 1500 Warburton Avenue, Santa Clara, CA 95050, Silicon Valley Power Offices, West Wing; Plumas County Library, 445 Jackson Street, Quincy, CA 95971; Chico Branch Library, 1108 Sherman Avenue, Chico, CA 95926; Oroville Branch Library, 1820 Mitchell Avenue, Oroville, CA 95966.

CONTACT

For questions regarding FERC's DEIS contact Alan Mitchnick at (202) 502-6074 or at alan.mitchnick@ferc.gov. For questions and comments regarding the City's intent to rely on FERC's DEIS, in combination with a supplemental analysis to satisfy CEQA, please contact John Davidson, Principal Planner, City of Santa Clara, 1500 Warburton Ave. Santa Clara, CA 95050. Phone: 408-615-2478. Email: JDavidson@santaclaraca.gov.
6/28/2019

<u>Product</u>	<u>Requested Placement</u>	<u>Requested Position</u>	<u>Run Dates</u>	<u># Inserts</u>
Chico Enterprise-Record	Legals CLS NC	General Legal NC - 1076~	06/28/19	1
Oroville Mercury-Register	Legals CLS NC	General Legal NC - 1076~	06/28/19	1

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STATE OF CALIFORNIA }
County of Plumas } ss.
and/or Lassen

Keri B. Taborski deposes and says: That she is the
principal clerk for the publisher of the

☒ **BULLETIN**
Quincy, Plumas County
Adjudication Decree #4644

☒ **RECORD**
Greenville, Plumas County
Adjudication Decree #5462

☒ **Chester Progressive**
Chester, Plumas County
Adjudication Decree #5956

☒ **PORTOLA REPORTER**
Portola, Plumas County
Adjudication Decree #2497

☐ **Times**
Gusaville, Lassen County
Adjudication Decree #15466

that the Public Notice, City of Santa Clara re: Bucks
Creek DEIS

of which the attached is a true printed copy, was
published in the weekly issue of said newspaper(s)
as indicated above (and not in a supplement there-
of) for One
consecutive week(s), beginning June 26, 2019
and ending June 26, 2019, both dates inclusive,
to wit: June 26, 2019

Date: June 26, 2019

/s/ Keri B. Taborski

Keri B. Taborski

PUBLIC NOTICE
City of Santa Clara
Bucks Creek Hydroelectric
Project Relicensing
Notice of the City of Santa Clara's Intent
to Rely on FERC's Environmental
Impact Statement, in Combination with
a Supplemental Analysis Prepared by
the City of Santa Clara, to Satisfy CEQA
Notice of the Availability of FERC's
Draft Environmental Impact Statement
for Relicensing of Bucks Creek
Hydroelectric Project (FERC Project No.
619).

In accordance with State CEQA Guidelines §15221 and §15225, the City of Santa Clara (City) (operating as Silicon Valley Power or SVP) intends to rely on the Environmental Impact Statement (EIS) prepared by the Federal Energy Regulatory Commission (FERC or Commission) in combination with a supplemental analysis to be prepared by the City to meet the requirement of the California Environmental Quality Act (CEQA). Compliance with CEQA is necessary for the City's future discretionary action regarding acceptance of the new license order anticipated to be issued by FERC in early 2021 for the continued operation and maintenance of the Bucks Creek Project. The public input and review process for the Project was initiated with two public scoping meetings on February 11, 2014 at 10am and at 7pm at the Holiday Inn in Chico, California. The City formally announced its CEQA Lead Agency role via letter to stakeholders on June 23, 2017, with a follow-up announcement to additional stakeholders on February 13, 2019.

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should reference FERC Project No. 619-164. Comments may be filed using FERC's eFiling system at <http://www.ferc.gov/docs-filing/efiling.asp>. Commenters must include their name and contact information at the end of any comments. In lieu of electronic filing, commenters may submit paper comments to: Secretary, Federal Energy Regulatory Commission, 888 First Street, NE, Washington, DC 20426. Include docket number P-619-164 on the first page of any filing. Those with comments particular to CEQA or the role of the City as CEQA Lead Agency may submit comments to the City of Santa Clara. Email comments may be sent to RBrilliot@SantaClaraCA.gov. Include Bucks Creek Project in the subject line, attach comments in MS Word or Adobe PDF format, and include the commenter's U.S. Postal Service mailing address. Paper comments regarding CEQA may be submitted to City of Santa Clara, Bucks Creek Project, 1500 Warburton Ave. Santa Clara, CA 95050. Attention: Reena Brilliot, Planning Manager.

SIGNIFICANT EFFECTS

The DEIS describes the primary issues associated with licensing the proposed Project as the effects of continued project operation on geology and soils, water quality, fishery resources, terrestrial resources, threatened and endangered species, recreation and land use, and cultural resources. The DEIS includes recommended environmental measures that would adequately protect and enhance environmental resources affected by the proposed project. Project impacts will be further evaluated under CEQA in a draft supplemental analysis which will be distributed separately to the public for review and comment in the spring of 2020.

DOCUMENT AVAILABILITY

A copy of the DEIS is available for review in the Commission's Public Reference Branch, Room 2A, located at 888 First Street, N.E., Washington, DC 20426. The DEIS also may be viewed on the Commission's website at <http://www.ferc.gov> under the eLibrary link. Enter the docket number P-619 in the docket number field to access the document. In addition, a copy of the DEIS is available for review on the City's website at <http://www.siliconvalleypower.com/svp-and-community/projects> and at the following locations: City of Santa Clara, 1500 Warburton Avenue, Santa Clara, CA 95050, Silicon Valley Power Offices, West Wing; Plumas County Library, 445 Jackson Street, Quincy, CA 95971; Chico Branch Library, 1108 Sherman Avenue, Chico, CA 95926; Oroville Branch Library, 1820 Mitchell Avenue, Oroville, CA 95966.

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City of Santa Clara, 1500 Warburton Ave.
Santa Clara, CA 95050. Phone: 408-615-2452. Email: RBrilliot@SantaClaraCA.gov
Published FRB, IVR, PR, CP
June 26, 2019]

UNITED STATES OF AMERICA
FEDERAL ENERGY REGULATORY COMMISSION

Pacific Gas and Electric Company
and City of Santa Clara, California

Project No. 619-164

PUBLIC MEETINGS SOLICITING COMMENTS ON THE DRAFT
ENVIRONMENTAL IMPACT STATEMENT FOR THE BUCKS CREEK
HYDROPOWER PROJECT

(June 28, 2019)

On June 14, 2019, the Commission issued a Notice of Availability of the Draft Environmental Impact Statement (EIS) for the Bucks Creek Hydropower Project. The draft EIS documents the views of governmental agencies, non-governmental organizations, affected Indian tribes, the public, the license applicants, and Commission staff. All written comments must be filed by August 13, 2019, and should reference Project No. 619-164. More information on filing comments can be found in the letter at the front of the draft EIS or on the Commission's website at <http://www.ferc.gov/docs-filing/efiling.asp>. Although the Commission strongly encourages electronic filing, documents may also be paper-filed.

In addition to or in lieu of sending written comments, you are invited to attend public meetings that will be held to receive comments on the draft EIS. The daytime meeting will focus on resource agency, Indian tribes, and non-governmental organization comments, while the evening meeting is primarily for receiving input from the public. All interested individuals and entities are invited to attend one or both of the public meetings. The time and location of the meetings are as follows:

Thursday, August 1, 2019

Daytime meeting:
10 a.m. - noon Pacific Daylight Time
Feather River Tribal Health
Holiday Inn Express
2145 5th Ave.
Oroville, CA, 95965
530-534-5394

Project No. 619-164

- 2 -

Evening meeting:
7 - 9 p.m. Pacific Daylight Time
Holiday Inn Express
550 Oro Dam Blvd.
Oroville, CA, 95965
530-534-5566

The City of Santa Clara, in their role as California Environmental Quality Act (CEQA) Lead Agency for the project, will be in attendance at the meetings and will use feedback on the DEIS, along with other information, for development of the supplemental CEQA document.

At this meeting, resource agency personnel and other interested persons will have the opportunity to provide oral and written comments and recommendations regarding the draft EIS. The meeting will be recorded by a court reporter, and all statements (verbal and written) will become part of the Commission's public record for the project. This meeting is posted on the Commission's calendar located at <http://www.ferc.gov/EventCalendar/EventsList.aspx> along with other related information.

For further information, contact Alan Mitchnick at (202) 502-6074 or at alan.mitchnick@ferc.gov.

Nathaniel J. Davis, Sr.,
Deputy Secretary.



*Giving You the
Power to Change the
World*

July 12, 2019

Subject: Notice of Public Meetings to Solicit Comments on the FERC DEIS for Relicensing of Bucks Creek Hydroelectric Project (FERC Project No. 619) for Use in Development of the Supplemental CEQA Document.

Dear Participating Agency,

Recently, you received a Notice of Public Meetings (attached) on the Draft Environmental Impact Statement (DEIS) for the Bucks Creek Hydropower Project. This email is to inform you that the City of Santa Clara, in their role as California Environmental Quality Act (CEQA) Lead Agency for this project, has arranged with FERC to join that meeting and receive input on the CEQA supplement that the City intends to prepare. The City of Santa Clara will rely on the FERC EIS, in combination with a supplemental analysis prepared by the city, to meet CEQA requirements, in accordance with State CEQA Guidelines §15221 and §15225 (please see attached NOI/NOA). A CEQA-focused discussion will occur during the **10 AM- 12 PM** FERC DEIS Public Meeting on **August 1, 2019**, providing resource agencies, Tribes, and Non-Governmental Organizations the opportunity to submit oral and written comments and recommendations regarding the CEQA supplement.

This meeting will be hosted at:

Feather River Tribal Health
2145 5th Ave.
Oroville, CA 95965
530-534-5394

A second CEQA workshop is scheduled to be held at the City of Santa Clara on:

Wednesday, August 7, 2019
3:00 PM-5:00 PM
881 Martin Avenue
Santa Clara, CA 95050

For further information about the CEQA session, please contact Ian Kroll at (206) 413-8924 or ikroll@trccompanies.com or Patricia Sussman at (530) 401-1397 or patriciasussman@en2resources.com.

Sincerely,

A handwritten signature in blue ink that reads "John Davidson". The signature is fluid and cursive, with the first name "John" and last name "Davidson" clearly distinguishable.

John Davidson
Principal Planner
City of Santa Clara
1500 Warburton Ave. Santa Clara, CA 95050
(direct) 408-615-2478
JDavidson@SantaClaraCA.gov
www.santaclaraca.gov

cc.
Plumas County Clerk
Santa Clara County Clerk
State Clearinghouse

Attachment A: FERC's Notice of Availability for DEIS for the Bucks Creek Project
Attachment B: City of Santa Clara's NOI-NOA for the Bucks Creek Project

FILE# 656675

REAL #110, LOS ALTOS,

31. CAMINO REAL #110,

transacting business under the

Previous File # FBN615159

San County on 07/10/2019.

FILE# 656815

106, SANTA CLARA, CA

YWARD, CA 94545

transacting business under the

San County on 07/16/2019.

FILE# 656698

31M, SAN JOSE, CA 95112

transacting business under the
FILE.

San County on 07/11/2019.

FILE# 656469

#1231, SANTA CLARA,

31, SANTA CLARA, CA

transacting business under the

San County on 07/02/2019.

FILE# 656566

SE, CA 95117

CA 95117

JO VALLEY, CA 94552

transacting business under

San County on 07/08/2019.

FILE# 656101**NOTICE OF PUBLIC MEETING**

City of Santa Clara Notice of Public Meetings to Solicit Comments on the FERC DEIS for Relicensing of Bucks Creek Hydroelectric Project (FERC Project No. 619) for Use in Development of the Supplemental CEQA Document.

On June 14, 2019, the Federal Energy Regulatory Commission (FERC) issued a Draft Environmental Impact Statement (DEIS) for the Bucks Creek Hydroelectric Relicensing Project (Project), which was prepared in accordance with the National Environmental Policy Act (NEPA) of 1969 and FERC's regulations. In their role as California Environmental Quality Act (CEQA) lead agency for the Project, and in accordance with State CEQA Guidelines §15221 and §15225, the City of Santa Clara (City) (operating as Silicon Valley Power or SVP), released a Notice of Intent on June 25, 2019 to rely on the Environmental Impact Statement (EIS) prepared by FERC in combination with a supplemental analysis to be prepared by the City to meet the requirement of the California Environmental Quality Act (CEQA). To review the DEIS or for more information regarding the Project, please visit <http://www.siliconvalleypower.com/svp-and-community/projects>.

MEETING DATE, TIME AND LOCATION

In their role as lead agency for compliance with CEQA the City invites interested parties to a meeting regarding the Project and the City's role as lead agency. At the meeting the City will be soliciting and collecting input from stakeholder to inform preparation of the CEQA supplemental analysis. The time and location of the meeting is as follows:

Date: Wednesday, August 7, 2019

Time: 3:00 PM- 5:00 PM

Where: Silicon Valley Power Training Room, 881 Martin Avenue, Santa Clara, CA 95050

In lieu of providing comments at the meeting, comments may be submitted to the City of Santa Clara. Email comments may be sent to JDavidson@SantaClaraCA.gov.

Include Bucks Creek Project in the subject line and attach comments in MS Word or Adobe PDF format and include the commenter's U.S. Postal Service mailing address. Paper comments regarding CEQA may be submitted to City of Santa Clara Community Development Department, re: Bucks Creek Project, 1500 Warburton Ave. Santa Clara, CA 95050. Attention: John Davidson, Principal Planner.

PROJECT DESCRIPTION AND LOCATION

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, including a 4.2-mile-long, 115 kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The project area covers approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service.

Pub: 7/31/2019

NOTICE OF TRUSTEE'S SALE T.S. No. 19-00572-CI-CA Title No. 190805342-CA-VOI A.P.N. 290-17-019 ATTENTION RECORDER: THE FOLLOWING REFERENCE TO AN ATTACHED SUMMARY IS APPLICABLE TO THE NOTICE PROVIDED TO THE TRUSTOR ONLY PURSUANT TO CIVIL CODE 2923.3 NOTE: THERE IS A SUMMARY OF THE INFORMATION IN THIS DOCUMENT ATTACHED. YOU ARE IN DEFAULT UNDER A DEED OF TRUST DATED 06/08/2003. UNLESS YOU TAKE ACTION TO PROTECT YOUR PROPERTY, IT MAY BE SOLD AT A PUBLIC SALE. IF YOU NEED AN EXPLANATION OF THE NATURE OF THE PROCEEDING AGAINST YOU, YOU SHOULD CONTACT A LAWYER. A public auction sale to the highest bidder for cash, (cashier's check(s) must be made payable to National Default Servicing Corporation), drawn on a state or national bank, a check drawn by a state or federal credit union, or a check drawn by a state or federal savings and loan association, savings association, or savings bank specified in Section 5102 of the Financial Code and authorized to do business in this state; will be held by the duly appointed trustee as shown below, of all right, title, and interest conveyed to and now held by the trustee in the hereinafter described property under and pursuant to a Deed of Trust described below. The sale will be made in an "as is" condition, but without covenant or warranty, expressed or implied, regarding title, possession, or encumbrances, to pay the remaining principal sum of the note(s) secured by the Deed of Trust, with interest and late charges thereon, as provided in the note(s), advances, under the terms of the Deed of Trust, interest thereon, fees, charges and expenses of the Trustee for the total amount (at the time of the initial publication of the Notice of Sale) reasonably estimated to be set forth below.



Gavin Newsom
Governor

STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit



Kate Gordon
Director

August 14, 2019



John Davidson
Santa Clara, City of
1500 Warburton Avenue
Santa Clara, CA 95971

Subject: Bucks Creek Hydroelectric Project (FERC Project No. 619)
SCH#: 2019069104

Dear John Davidson:

The State Clearinghouse submitted the above named NOI to selected state agencies for review. The review period closed on 8/13/2019, and no state agencies submitted comments by that date. This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act, please visit: <https://ceqanet.opr.ca.gov/2019069104/2> for full details about your project.

Please call the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process. If you have a question about the above-named project, please refer to the ten-digit State Clearinghouse number when contacting this office.

Sincerely,

Scott Morgan
Director, State Clearinghouse

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Appendix B

Construction Equipment Information and CalEEMOD Outputs

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Table 1 - Construction Equipment and Usage for Bucks Creek Hydroelectric Project

Project Element	Estimated Construction Equipment		Estimated Operation			Schedule		Materials		
	Quantity	Type	Days per Week	Hours per Day	Duration of Use (weeks)	Start Date	End Date	Type	Quantity (cy)	Heavy Duty Truck Loads
Howell-Bunger valve at Bucks Lake Dam										
	1	generator	3	5	1	6/1/2021	6/4/2021	Valve/misc materials	NA	1
Recreation										
Bucks Lake Inlet Parking (install signage)	1	mini excavator	2	8	1	6/1/2030	6/3/2030	Cement	<8	1
	1	cement truck	1	4	1					
	1	dump truck	2	8	1					
	1	generator	2	8	1					
Grizzly Forebay Campground										
Trail maintenance	2	chainsaws	4	8	2	6/1/2021	6/11/2021	None	NA	NA
	2	weed eater	4	8	2					
Install wildlife resistant food storage lockers	1	boat	4	2	2.5	6/1/2021	6/15/2021	None	NA	NA
	1	hole digger (gas operated)	4	2	0.5					
Fuel treatment	1	grapple skidder	5	7	1	6/1/2021	6/6/2021	None	NA	NA
	1	tracked chipper	5	7	1					
	1	excavator with rotating grapples	5	7	1					
	1	skidder	5	7	1					
	3	chainsaw	5	7	1					
Reconstruct (7 sites)	1	generator	5	8	8	6/1/2036	7/27/2036	Misc Bldg Materials	NA	4
	1	backhoe	5	8	4					
	1	skidder	5	8	4					
	1	small crane	5	8	2					
	1	paver machine	5	8	2					
	1	vibrant plate	5	8	2					
Grizzly Forebay Recreation Area and Gaging Station Trail										
Perform trail maintenance	2	chainsaws	4	8	2	6/1/2021	6/11/2021	None	NA	NA
	2	weed eater	4	8	2					
Replace bathroom and parking area	1	excavator	3	8	1	6/1/2023	6/4/2023	Misc Bldg Materials	NA	2
	1	sewer truck	1	8	1					
	1	compactor	2	8	1					
	1	dump truck	3	8	1					
	1	crane	1	5	1					
Install signage	1	mini excavator	2	8	1	6/1/2023	6/3/2023	Cement	<8	1
	1	cement truck	1	4	1					
	1	dump truck	2	8	1					
	1	generator	2	8	1					
Reconstruct (day use)	1	generator	4	2	2	6/1/2037	6/11/2037	Misc Bldg Materials	NA	2
	1	chainsaw	4	2	2			Cement	8	1
	1	jack hammer	4	2	2					
	1	backhoe	4	4	2					
	1	concrete truck	4	4	2					
	1	small crane	4	4	2					
	1	vibrant plate	4	4	2					

Project Element	Estimated Construction Equipment		Estimated Operation			Schedule		Materials		
	Quantity	Type	Days per Week	Hours per Day	Duration of Use (weeks)	Start Date	End Date	Type	Quantity (cy)	Heavy Duty Truck Loads
Haskins Valley Campground										
Wildlife resistant food storage (30 units)	1	hole digger	2	8	1	6/1/2027	6/3/2027	None	NA	NA
	1	backhoe	2	8	1					
Provide additional accessible campsites (5 sites) and accessibility improvements	1	bobcat	4	8	2	6/1/2027	6/11/2027	Misc Bldg Materials	NA	1
	1	mini excavator	4	8	2					
	1	dump truck	4	8	2					
	1	water truck	4	8	2					
	1	vibrant plate	4	8	2					
Reconstruct campground	2	generator	4	8	24	6/1/2040	10/13/2040	Misc Materials	NA	15
	1	drill rig	4	8	2			AC	100	10
	2	backhoe	4	6	16			Cement	8	1
	1	skid steer	4	6	16					
	1	cement truck	4	8	6					
	1	water/haul truck	4	2	16					
	1	vibrant plate	4	2	10					
	1	small crane	4	4	8					
	1	paver machine	4	6	10					
	1	roller compactor	4	8	10					
Add campsites and amphitheater (5 sites)	1	bobcat	4	8	3	6/1/2028	6/17/2028	Misc materials	NA	2
	1	mini excavator	4	8	3					
	1	dump truck	4	8	3					
	1	water truck	4	8	3					
	1	vibrant plate	4	8	3					
Add 120-volt electrical outlet at 20 sites	2	backhoe	5	8	2	6/1/2027	6/15/2027	Misc electrical	NA	2
Hutchins Group Campground										
Reconstruct campground	1	generator	5	8	20	6/1/2029	10/19/2029	Misc materials	NA	4
	1	drill rig	5	8	2			AC	10	1
	1	backhoe	5	8	4			Cement	8	1
	1	backhoe	5	8	12					
	1	skid steer	5	8	12					
	1	cement truck	5	8	4					
	1	small crane	5	8	8					
	1	water/dump truck	5	8	12					
	1	paver machine	5	8	8					
	1	vibrant plate	5	8	8					
Trail to Lower Bucks, bring up to standard	2	chainsaws	4	8	2	6/1/2029	6/11/2029	None	NA	NA
	2	weed eater	4	8	2					
Indian Rock Day Use Area										
Reconstruct day use area	1	generator	4	8	6	6/1/2032	7/3/2032	AC	60	6
	1	chainsaw	4	2	1.5			Misc materials	NA	2
	1	jack hammer	4	2	1.5					
	1	loader	2	8	1					
	1	excavator	2	8	1					
	1	roller compactor	1	8	1					
	1	water truck	4	8	1					
	1	bobcat	2	8	1					
	1	backhoe	5	8	3					
	1	cement truck	5	8	1					
	1	small crane	1	8	1					
	1	paver machine	5	8	1					
	1	vibrant plate	5	8	1					
Formalize trails	2	chainsaws	4	8	2	6/1/2032	6/11/2032	None	NA	NA
	2	weed eater	4	8	2					

Project Element	Estimated Construction Equipment		Estimated Operation			Schedule		Materials		
	Quantity	Type	Days per Week	Hours per Day	Duration of Use (weeks)	Start Date	End Date	Type	Quantity (cy)	Heavy Duty Truck Loads
Lower Bucks Lake Campground										
Convert shoreline campsites and construct new capacity (15 sites)	1	bobcat	4	8	8	6/1/2026	8/24/2026	AC	200	20
	1	mini excavator	4	8	8			Misc materials	NA	5
	1	dump truck	4	8	8					
	1	water truck	4	8	8					
	1	paver machine	4	8	4					
	1	vibrant plate	4	8	8					
	1	dozer	4	8	12					
	1	backhoe	4	8	12					
	1	bobcat	4	8	12					
	1	all terrain track digger	4	8	6					
	1	line truck	4	8	6					
	1	backhoe	5	8	12					
	1	skid steer	5	8	8					
	1	cement truck	5	8	4					
	1	small crane	5	8	2					
	1	generator	5	8	8					
Add electricity to 3 to 4	1	backhoe	5	8	1	6/1/2026	6/6/2026	Misc electrical	NA	1
Lower Bucks Lake Day Use Area										
Construct conversion of existing campsite nos. 5 & 6	1	mini excavator	2	8	1	6/1/2027	6/11/2027	Misc materials	NA	2
	1	cement truck	1	4	1			Cement	<8	1
	1	dump truck	2	8	1					
	1	generator	2	8	2					
	1	chainsaw	4	2	2					
	1	jack hammer	4	2	2					
Reconstruct existing day use area w/ boat launch	1	mini excavator	2	8	1	6/1/2028	6/11/2028	Misc materials	NA	2
	1	cement truck	1	4	1			Cement	<8	1
	1	dump truck	2	8	1					
	1	generator	2	8	2					
	1	chainsaw	4	2	2					
	1	jack hammer	4	2	2					
Mill Creek Campground										
Reconstruct	1	bobcat	4	8	8	6/1/2025	8/28/2025	Misc materials	NA	2
	1	backhoe	4	8	8			AC	10	1
	1	water/dump truck	4	8	4			Cement	<8	1
	1	cement truck	4	8	8					
	1	paver machine	4	8	4					
	1	small crane	4	8	4					
	1	vibrant plate	4	8	4					
	1	generator	4	2	16					
Mill Creek Tie Trail - bring up to standard	2	chainsaws	4	8	2	6/1/2025	6/11/2025	None	NA	NA
	2	weed eater	4	8	2					
Replace water system	1	drill rig	5	8	2	6/1/2025	6/15/2025	Misc materials	NA	2
	1	backhoe	5	8	2					

Project Element	Estimated Construction Equipment		Estimated Operation			Schedule		Materials		
	Quantity	Type	Days per Week	Hours per Day	Duration of Use (weeks)	Start Date	End Date	Type	Quantity (cy)	Heavy Duty Truck Loads
Sandy Point Day Use Area and Boat Launch										
Construct shoreline trail and parking near Sundew campground	2	chainsaws	4	4	20	6/1/2035	9/21/2035	AC	300	30
	2	weed eater	4	4	20			Subgrade	260	17
	1	bobcat	5	4	10			Misc materials	NA	10
	1	paver machine	5	8	4					
	1	vibrant plate	5	8	4					
Construct double launch	1	bobcat	5	8	6	6/1/2035	7/13/2035	Cement	28	4
	1	dump truck	5	8	6			Subgrade	28	4
	1	loader	5	8	6			Misc materials	NA	2
	1	excavator	5	8	6					
	1	dozer	5	8	1					
	1	roller compactor	5	8	1	6/1/2035	10/19/2035			
	2	cement truck	3	4	1					
	1	backhoe	5	8	20			AC	50	5
	1	skid steer	5	8	20			Misc materials	NA	6
	1	concrete truck	5	8	8			Cement	<8	1
Reconstruct	1	water/dump truck	5	8	4	6/1/2035	10/19/2035			
	1	small crane	5	8	4					
	1	paver machine	5	8	8					
	1	vibrant plate	5	8	8					
	1	generator	5	8	20					
Replace water system	1	drill rig	5	8	2	6/1/2024	6/15/2024	Misc materials	NA	2
	1	backhoe	5	8	2					
Sundew Campground										
Reconstruct (includes adding capacity)	1	bobcat	4	8	8	6/1/2034	9/21/2034	Misc materials	NA	4
	1	backhoe	4	8	8			AC	10	1
	1	water/dump truck	4	8	4			Cement	<8	1
	1	cement truck	4	8	8					
	1	small crane	4	8	4					
	1	paver machine	4	8	4					
	1	vibrant plate	4	8	4					
	1	generator	4	2	20					
Replace water system	1	drill rig	5	8	2	6/1/2022	6/15/2022	Misc materials	NA	2
	1	backhoe	5	8	2					
West End Cove Day Use Area										
Construct shoreline access trail and fishing access facility	2	chainsaws	4	8	2	6/1/2030	6/23/2030	Misc materials	NA	1
	2	weed eater	4	8	2			AC	20	2
	1	generator	4	8	4			Cement	28	4
	1	mini excavator	4	8	4					
	1	cement truck	4	8	2					
	1	vibrant plate	4	8	2					
	1	bobcat	4	8	4					
	1	backhoe	4	8	4					
Reconstruct	1	backhoe	5	8	4	6/1/2039	6/29/2039	AC	10	1
	1	skid steer	5	8	3			Misc materials	NA	2
	1	cement truck	5	8	1			Cement		1
	1	water/dump truck	5	8	1					
	1	small crane	1	8	1					
	1	paver machine	5	8	1					
	1	vibrant plate	5	8	1					
	1	generator	5	8	1					

Project Element	Estimated Construction Equipment		Estimated Operation			Schedule		Materials		
	Quantity	Type	Days per Week	Hours per Day	Duration of Use (weeks)	Start Date	End Date	Type	Quantity (cy)	Heavy Duty Truck Loads
Bucks Lake Boat-in Campground										
Remove amenities at existing site nos. 2 & 3	1	generator	2	8	3	6/1/2031	6/9/2031	None	NA	0
Construct new sites at the location of existing site no. 1	1	generator	4	8	4	6/1/2031	6/23/2031	Misc materials	NA	2
	2	chainsaws	4	8	4					
	2	weed eater	4	8	4					
	1	boat	4	2	4					
	1	skid steer	4	8	3					
	1	mini excavator	4	8	2					
	1	helicopter (blackhawk)	4	4	1					
Fuel treatment	3	chainsaws	5	6	1	6/1/2031	6/6/2031	None	NA	0
Gravel Augmentation Plan	1	bobcat	5	2	1	6/1/2024	6/6/2024	Gravel	37	3
Transportation Plan										
Three Lakes Road										
Construct Upslope Stabilization	1	excavator	5	8	16	6/1/2025	9/21/2025	Soil export	32	2
	1	heavy duty truck	5	8	16			Rip rap import	15000	887
Gravel Road Resurfacing	1	backhoe	1	8	1	6/1/2025	6/2/2025	Gravel	16	1
	1	vibrant plate	1	8	1					
Remove and Replace Pavement	1	backhoe	1	8	1	6/1/2025	6/2/2025	AC	10	1
	1	vibrant plate	1	8	1			Export old AC	10	1
	1	paver	1	8	1					
Re-grade the drainage and culvert entrance and unplug culverts	1	backhoe	5	8	3	6/1/2025	6/22/2025	Misc materials	NA	7
Construct Roadside Conveyance Ditches with Culverts	2	excavator	5	8	12	6/1/2027	8/24/2027	Import gravel/soil	1080	68
	2	backhoe	5	8	12			Export soil	720	45
	2	compactor	5	8	12			Culvert delivery	NA	24
	2	heavy duty truck	5	8	12					
Construct Culvert Replacements	2	excavator	5	8	16	6/1/2026	9/21/2026	Import gravel/soil	1035	65
	2	backhoe	5	8	16			Culvert delivery	NA	23
	2	compactor	5	8	16					
	2	heavy duty truck	5	8	16					
Construct Culvert Outfall Transitions	1	backhoe	2	8	1	6/1/2024	6/3/2024	Misc materials	NA	2
Construct Low Water Crossings	1	excavator	5	8	3	6/1/2025	6/22/2025	Misc materials	NA	3
	1	loader	5	8	3					
	1	heavy duty truck	5	8	3					
Bucks Penstock Road										
Construct Downslope Stabilization	1	excavator	4	8	4	6/1/2021	6/23/2021	Rip rap import	3750	222
	1	heavy duty truck	4	8	4					
Re-grade the drainage and culvert entrance and unplug culverts	1	backhoe	5	8	1	6/1/2022	6/6/2022	Misc materials	NA	2
Construct Roadside Conveyance Ditches with Culverts	1	excavator	5	8	1.5	6/1/2027	6/11/2027	Import gravel/soil	45	3
	1	backhoe	5	8	1.5			Culvert delivery	NA	1
	1	compactor	5	8	1.5					
	1	heavy duty truck	5	8	1.5					
Construct Culvert Replacements	1	excavator	5	8	13.5	6/1/2023	9/3/2023	Import gravel/soil	450	28
	1	backhoe	5	8	13.5			Culvert delivery	NA	10
	1	compactor	5	8	13.5					
	1	heavy duty truck	5	8	13.5					

Project Element	Estimated Construction Equipment		Estimated Operation			Schedule		Materials		
	Quantity	Type	Days per Week	Hours per Day	Duration of Use (weeks)	Start Date	End Date	Type	Quantity (cy)	Heavy Duty Truck Loads
Grizzly Forebay Road										
Construct Culvert Replacements	1	excavator	5	8	2	6/1/2029	6/15/2029	Import gravel/soil	90	6
	1	backhoe	5	8	2			Culvert delivery	NA	2
	1	compactor	5	8	2					
	1	heavy duty truck	5	8	2					
Re-grade the drainage and culvert entrance and unplug culverts	1	backhoe	5	8	2	6/1/2029	6/15/2029	Misc materials	NA	5
Remove and replace pavement	1	loader	2	8	1	6/1/2029	6/5/2029	AC	150	15
	1	excavator	2	8	1					
	2	dump trucks	2	8	1					
	1	paver machine	1	8	1					
	1	roller compactor	1	8	1					
	1	water truck	4	8	1					
	1	skip loader	1	8	1					
	1	bobcat	2	8	1					
Grizzly Communication Roads										
Construct Culvert Replacements	1	excavator	5	8	2	6/1/2035	6/15/2035	Import gravel/soil	90	6
	1	backhoe	5	8	2			Culvert delivery	NA	2
	1	compactor	5	8	2					
	1	heavy duty truck	5	8	2					
Re-grade the drainage and culvert entrance and unplug culverts	1	backhoe	2	8	1	6/1/2035	6/3/2035	Misc materials	NA	1
Grizzly Powerhouse Intake Road										
Construct Culvert Replacements	1	excavator	5	8	6	6/1/2034	7/13/2034	Import gravel/soil	180	12
	1	backhoe	5	8	6			Culvert delivery	NA	4
	1	compactor	5	8	6					
	1	heavy duty truck	5	8	6					
Grizzly Portal Road										
Construct Culvert Replacements	1	excavator	5	8	4.5	6/1/2033	7/2/2033	Import gravel/soil	135	9
	1	backhoe	5	8	4.5			Culvert delivery	NA	3
	1	compactor	5	8	4.5					
	1	heavy duty truck	5	8	4.5					
Unplug Culvert	1	backhoe	1	8	1	6/1/2033	6/2/2033	Misc materials	NA	1
Grizzly Powerhouse Road										
Construct Culvert Replacements	1	excavator	5	8	11.5	6/1/2031	8/20/2031	Import gravel/soil	405	26
	1	backhoe	5	8	11.5			Culvert delivery	NA	9
	1	compactor	5	8	11.5					
	1	heavy duty truck	5	8	11.5					
Re-grade the drainage and culvert entrance and unplug culverts	1	backhoe	1	8	3	6/1/2030	6/4/2030	Misc materials	NA	7
Construct Culvert Outfall Transitions	1	backhoe	1	8	1	6/1/2031	6/2/2031	Misc materials	NA	1
Haskins Valley Campground										
Remove and Replace Pavement	1	loader	5	8	4	6/1/2040	6/29/2040	AC	1700	170
	1	excavator	5	8	4			Export old AC	1700	170
	2	heavy duty truck	5	8	4					
	1	paver machine	5	8	2					
	1	roller compactor	5	8	2					
	2	water truck	5	8	4					
	1	skip loader	5	8	2					
	1	bobcat	5	8	4					
Construct Conveyance Ditches	1	excavator	5	8	1.5	6/1/2028	6/11/2028	Export soil	40	3
	1	loader	5	8	1.5					
	1	heavy duty truck	5	8	1.5					
Re-grade the drainage and culvert entrance and unplug culverts	1	backhoe	1	8	2	6/1/2023	6/3/2023	Misc materials	NA	5
Campground Pavement Resurfacing	NA	NA	NA	NA	NA			NA	NA	NA

Project Element	Estimated Construction Equipment		Estimated Operation			Schedule		Materials		
	Quantity	Type	Days per Week	Hours per Day	Duration of Use (weeks)	Start Date	End Date	Type	Quantity (cy)	Heavy Duty Truck Loads
Hutchins Group Campground										
Reconstruct Campground Access Road Entrance	1	loader	1	8	2	6/1/2023	6/3/2023	None	NA	NA
	1	dozer	1	8	2					
	1	bobcat	1	8	2					
	1	compactor	1	8	2					
	1	heavy duty truck	1	8	2					
Dirt Road Resurfacing	1	loader	5	8	4	6/1/2023	6/29/2023	None	NA	NA
	1	dozer	5	8	4					
	1	bobcat	5	8	4					
	1	compactor	5	8	4					
	1	heavy duty truck	5	8	4					
Construct Culvert Outfall Transitions	1	backhoe	1	8	1	6/1/2023	6/2/2023	Misc materials	NA	1
Remove and Replace Pavement	1	loader	2	8	1	6/1/2029	6/5/2029	AC	200	20
	1	excavator	2	8	1					
	2	heavy duty truck	2	8	1					
	1	paver machine	1	8	1					
	1	roller compactor	1	8	1					
	1	water truck	4	8	1					
	1	skip loader	1	8	1					
	1	bobcat	2	8	1					
Lower Bucks Lake Campground										
Reconstruct Campground Entrance and Signage	1	excavator	5	8	5	6/1/2026	7/6/2026	AC	360	36
	1	loader	5	8	5			AB	1080	108
	1	dozer	5	8	5					
	1	compactor	5	8	5					
	1	paver	5	8	5					
	1	heavy duty truck	5	8	5	6/1/2026	7/6/2026			
Construct Campground Roads	1	excavator	5	8	5			AC	280	28
	1	loader	5	8	5			AB	840	84
	1	dozer	5	8	5					
	1	compactor	5	8	5					
	1	paver	5	8	5	6/1/2023	6/6/2023			
	1	heavy duty truck	5	8	5					
Reconstruct Three Lakes Road and Mill Creek Road Intersection	1	loader	5	8	1			Gravel	30	2
	1	dozer	5	8	1					
	1	bobcat	5	8	1					
	1	compactor	5	8	1					
	1	heavy duty truck	5	8	1					
Mill Creek Campground										
Pavement Resurfacing Access Road	1	compactor	5	8	15.5	6/1/2023	9/17/2023	AC	775	78
	1	paver	5	8	15.5					
Construct Culvert Replacements	1	excavator	5	8	9	6/1/2023	8/3/2023	Import gravel/soil	360	23
	1	backhoe	5	8	9			Culvert delivery	NA	8
	1	compactor	5	8	9					
	1	heavy duty truck	5	8	9	6/1/2027	6/3/2027			
Re-grade the drainage and culvert entrance and unplug culverts	1	backhoe	2	8	1			Misc materials	NA	1
Repave internal access road and campground loop	1	compactor	5	8	18.5	6/1/2025	10/8/2025	AC	500	50
	1	paver	5	8	18.5					

Project Element	Estimated Construction Equipment		Estimated Operation			Schedule		Materials		
	Quantity	Type	Days per Week	Hours per Day	Duration of Use (weeks)	Start Date	End Date	Type	Quantity (cy)	Heavy Duty Truck Loads
Sundew Campground										
Pave access road and campground loop	1	compactor	5	8	14	6/1/2022	9/7/2022	AC	600	60
	1	paver	5	8	14					
Sandy Point Day Use										
Remove and replace failed access road way	1	excavator	5	8	8	6/1/2025	7/27/2025	AC	225	23
	1	loader	5	8	8			AB	675	68
	1	dozer	5	8	8			Export old AC	225	23
	1	compactor	5	8	8					
	1	paver	5	8	8					
	1	heavy duty truck	5	8	8					
Reconstruct	1	mini excavator	2	8	2	6/1/2025	7/27/2025	AC	950	95
	1	cement truck	1	4	2					
	1	dump truck	2	8	8					
	1	dozer	5	8	8					
	1	compactor	5	8	8					
	1	paver	5	8	8					
	1	generator	2	8	10					
	1	chainsaw	4	2	10					
	1	jack hammer	4	2	10					
Replace culverts	1	excavator	5	8	2	6/1/2025	6/15/2025	Import gravel/soil	90	6
	1	backhoe	5	8	2			Culvert delivery	NA	2
	1	compactor	5	8	2					
	1	heavy duty truck	5	8	2					
Unplug culverts	1	backhoe	5	8	1	6/1/2025	6/6/2025	Misc materials	NA	4
Clear vegetation	2	chainsaws	5	8	1	6/1/2024	6/6/2024	Export vegetation	160	10
	2	weed eater	5	8	1					

General Notes;

Construction information provided in this table are based on input and personal communication with PG&E engineers in the fall of 2019, and generally accepted construction practices. The information has been developed to be a conservative estimate of materials and equipment use that would be required for construction of the projects listed in the Recreation Plan, Transportation Plan, and other project documents.

cy = cubic yards

AC = asphalt concrete

AB = asphalt base

To estimate truck loads, a truck capacity of 16 cy or 20 tons is assumed.

AC is assumed to be 2 tons/cy

Start/End Dates may be adjusted for tasks scheduled in the same year (source: Jennifer Hartman, personal communication, October 24, 2019).

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	19.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	73
Climate Zone	1			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

On-road Fugitive Dust -

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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	3.4700e-003	0.0160	0.0320	5.0000e-005	2.4100e-003	7.6000e-004	3.1700e-003	5.7000e-004	7.2000e-004	1.2800e-003	0.0000	4.4400	4.4400	7.3000e-004	0.0000	4.4582
2022	2.5400e-003	0.0226	0.0262	8.0000e-005	4.5000e-004	9.0000e-004	1.3500e-003	1.2000e-004	8.3000e-004	9.5000e-004	0.0000	6.6151	6.6151	1.9900e-003	0.0000	6.6648
2023	3.0200e-003	0.0227	0.0248	7.0000e-005	3.6000e-004	9.0000e-004	1.2700e-003	1.0000e-004	8.4000e-004	9.4000e-004	0.0000	6.3445	6.3445	1.7500e-003	0.0000	6.3883
2024	2.2100e-003	0.0185	0.0246	7.0000e-005	5.8000e-004	6.7000e-004	1.2500e-003	1.5000e-004	6.1000e-004	7.7000e-004	0.0000	6.4328	6.4328	1.8500e-003	0.0000	6.4791
2025	0.0620	0.4300	0.5326	1.5200e-003	9.6200e-003	0.0166	0.0262	2.4300e-003	0.0154	0.0178	0.0000	132.9931	132.9931	0.0393	0.0000	133.9760
2026	0.1323	1.0066	1.1725	3.0900e-003	0.0153	0.0392	0.0545	4.0000e-003	0.0363	0.0403	0.0000	271.2338	271.2338	0.0787	0.0000	273.2010
2027	0.0129	0.0923	0.1235	3.4000e-004	2.4700e-003	3.2500e-003	5.7300e-003	5.9000e-004	3.0300e-003	3.6200e-003	0.0000	29.8738	29.8738	8.0800e-003	0.0000	30.0758
2028	0.0116	0.0780	0.0979	3.1000e-004	2.3400e-003	2.7000e-003	5.0400e-003	5.1000e-004	2.5200e-003	3.0200e-003	0.0000	27.3477	27.3477	7.6100e-003	0.0000	27.5379
2029	0.1230	0.9222	1.1824	3.2300e-003	0.0174	0.0355	0.0529	4.5000e-003	0.0331	0.0376	0.0000	282.6443	282.6443	0.0792	0.0000	284.6241
2030	0.0110	0.0470	0.1056	2.6000e-004	2.9900e-003	1.0900e-003	4.0800e-003	7.4000e-004	1.0900e-003	1.8300e-003	0.0000	24.5480	24.5480	8.5000e-004	0.0000	24.5692
2031	5.0000e-003	0.0320	0.0720	1.3000e-004	2.5800e-003	6.1000e-004	3.1900e-003	6.3000e-004	6.1000e-004	1.2300e-003	0.0000	11.5705	11.5705	3.7000e-004	0.0000	11.5797
2032	0.0348	0.1323	0.3196	8.3000e-004	6.0100e-003	4.0000e-003	0.0100	1.4600e-003	4.0000e-003	5.4600e-003	0.0000	77.3411	77.3411	2.7300e-003	0.0000	77.4094
2034	0.0854	0.2800	0.6295	2.0000e-003	0.0104	9.1200e-003	0.0195	2.7100e-003	9.1100e-003	0.0118	0.0000	190.7569	190.7569	6.7200e-003	0.0000	190.9249
2035	0.1562	0.5015	1.3694	3.9900e-003	0.0273	0.0137	0.0409	7.1900e-003	0.0137	0.0208	0.0000	373.9935	373.9935	0.0122	0.0000	374.2983
2036	0.0193	0.0945	0.2436	5.4000e-004	4.3800e-003	1.9900e-003	6.3700e-003	1.1100e-003	1.9800e-003	3.0900e-003	0.0000	46.4969	46.4969	1.5100e-003	0.0000	46.5347
2037	2.7500e-003	8.5100e-003	0.0214	7.0000e-005	1.4300e-003	2.0000e-004	1.6300e-003	3.1000e-004	2.0000e-004	5.0000e-004	0.0000	6.7819	6.7819	2.1000e-004	0.0000	6.7871
2039	0.0221	0.0697	0.1915	5.7000e-004	3.0600e-003	1.7800e-003	4.8400e-003	7.5000e-004	1.7800e-003	2.5300e-003	0.0000	54.0659	54.0659	1.7300e-003	0.0000	54.1091
2040	0.0980	0.3850	1.1013	3.0200e-003	0.0186	6.9100e-003	0.0255	4.8800e-003	6.9100e-003	0.0118	0.0000	273.7457	273.7457	7.6200e-003	0.0000	273.9362

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Maximum	0.1562	1.0066	1.3694	3.9900e-003	0.0273	0.0392	0.0545	7.1900e-003	0.0363	0.0403	0.0000	373.9935	373.9935	0.0792	0.0000	374.2983

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	3.4700e-003	0.0160	0.0320	5.0000e-005	2.4100e-003	7.6000e-004	3.1700e-003	5.7000e-004	7.2000e-004	1.2800e-003	0.0000	4.4400	4.4400	7.3000e-004	0.0000	4.4582
2022	2.5400e-003	0.0226	0.0262	8.0000e-005	4.5000e-004	9.0000e-004	1.3500e-003	1.2000e-004	8.3000e-004	9.5000e-004	0.0000	6.6151	6.6151	1.9900e-003	0.0000	6.6648
2023	3.0200e-003	0.0227	0.0248	7.0000e-005	3.6000e-004	9.0000e-004	1.2700e-003	1.0000e-004	8.4000e-004	9.4000e-004	0.0000	6.3445	6.3445	1.7500e-003	0.0000	6.3883
2024	2.2100e-003	0.0185	0.0246	7.0000e-005	5.8000e-004	6.7000e-004	1.2500e-003	1.5000e-004	6.1000e-004	7.7000e-004	0.0000	6.4328	6.4328	1.8500e-003	0.0000	6.4791
2025	0.0620	0.4300	0.5326	1.5200e-003	9.6200e-003	0.0166	0.0262	2.4300e-003	0.0154	0.0178	0.0000	132.9929	132.9929	0.0393	0.0000	133.9759
2026	0.1323	1.0066	1.1725	3.0900e-003	0.0153	0.0392	0.0545	4.0000e-003	0.0363	0.0403	0.0000	271.2335	271.2335	0.0787	0.0000	273.2007
2027	0.0129	0.0923	0.1235	3.4000e-004	2.4700e-003	3.2500e-003	5.7300e-003	5.9000e-004	3.0300e-003	3.6200e-003	0.0000	29.8738	29.8738	8.0800e-003	0.0000	30.0758
2028	0.0116	0.0780	0.0979	3.1000e-004	2.3400e-003	2.7000e-003	5.0400e-003	5.1000e-004	2.5200e-003	3.0200e-003	0.0000	27.3476	27.3476	7.6100e-003	0.0000	27.5379
2029	0.1230	0.9222	1.1824	3.2300e-003	0.0174	0.0355	0.0529	4.5000e-003	0.0331	0.0376	0.0000	282.6440	282.6440	0.0792	0.0000	284.6237
2030	0.0110	0.0470	0.1056	2.6000e-004	2.9900e-003	1.0900e-003	4.0800e-003	7.4000e-004	1.0900e-003	1.8300e-003	0.0000	24.5480	24.5480	8.5000e-004	0.0000	24.5692
2031	5.0000e-003	0.0320	0.0720	1.3000e-004	2.5800e-003	6.1000e-004	3.1900e-003	6.3000e-004	6.1000e-004	1.2300e-003	0.0000	11.5705	11.5705	3.7000e-004	0.0000	11.5797
2032	0.0348	0.1323	0.3196	8.3000e-004	6.0100e-003	4.0000e-003	0.0100	1.4600e-003	4.0000e-003	5.4600e-003	0.0000	77.3410	77.3410	2.7300e-003	0.0000	77.4093
2034	0.0854	0.2800	0.6295	2.0000e-003	0.0104	9.1200e-003	0.0195	2.7100e-003	9.1100e-003	0.0118	0.0000	190.7567	190.7567	6.7200e-003	0.0000	190.9247

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2035	0.1562	0.5015	1.3694	3.9900e-003	0.0273	0.0137	0.0409	7.1900e-003	0.0137	0.0208	0.0000	373.9931	373.9931	0.0122	0.0000	374.2979
2036	0.0193	0.0945	0.2436	5.4000e-004	4.3800e-003	1.9900e-003	6.3700e-003	1.1100e-003	1.9800e-003	3.0900e-003	0.0000	46.4969	46.4969	1.5100e-003	0.0000	46.5347
2037	2.7500e-003	8.5100e-003	0.0214	7.0000e-005	1.4300e-003	2.0000e-004	1.6300e-003	3.1000e-004	2.0000e-004	5.0000e-004	0.0000	6.7819	6.7819	2.1000e-004	0.0000	6.7871
2039	0.0221	0.0697	0.1915	5.7000e-004	3.0600e-003	1.7800e-003	4.8400e-003	7.5000e-004	1.7800e-003	2.5300e-003	0.0000	54.0658	54.0658	1.7300e-003	0.0000	54.1090
2040	0.0980	0.3850	1.1013	3.0200e-003	0.0186	6.9100e-003	0.0255	4.8800e-003	6.9100e-003	0.0118	0.0000	273.7454	273.7454	7.6200e-003	0.0000	273.9359
Maximum	0.1562	1.0066	1.3694	3.9900e-003	0.0273	0.0392	0.0545	7.1900e-003	0.0363	0.0403	0.0000	373.9931	373.9931	0.0792	0.0000	374.2979

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
7	5-6-2021	8-5-2021	0.0184	0.0184
11	5-6-2022	8-5-2022	0.0244	0.0244
15	5-6-2023	8-5-2023	0.0329	0.0329
19	5-6-2024	8-5-2024	0.0221	0.0221
23	5-6-2025	8-5-2025	0.3682	0.3682
24	8-6-2025	11-5-2025	0.1212	0.1212
27	5-6-2026	8-5-2026	0.8797	0.8797
28	8-6-2026	11-5-2026	0.2522	0.2522
31	5-6-2027	8-5-2027	0.0930	0.0930
35	5-6-2028	8-5-2028	0.0943	0.0943
39	5-6-2029	8-5-2029	0.4877	0.4877

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40	8-6-2029	11-5-2029	0.5541	0.5541
43	5-6-2030	8-5-2030	0.0665	0.0665
47	5-6-2031	8-5-2031	0.0381	0.0381
51	5-6-2032	8-5-2032	0.1639	0.1639
59	5-6-2034	8-5-2034	0.2125	0.2125
60	8-6-2034	11-5-2034	0.1513	0.1513
63	5-6-2035	8-5-2035	0.3901	0.3901
64	8-6-2035	11-5-2035	0.2641	0.2641
67	5-6-2036	8-5-2036	0.1157	0.1157
71	5-6-2037	8-5-2037	0.0098	0.0098
79	5-6-2039	8-5-2039	0.0904	0.0904
83	5-6-2040	8-5-2040	0.2370	0.2370
84	8-6-2040	9-30-2040	0.2011	0.2011
		Highest	0.8797	0.8797

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2.2 Overall Operational

Unmitigated Operational

[illegible]

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	1 - Howell-Bunger valve	Building Construction	6/1/2021	6/4/2021	5	3	
2	3a - Grizzly Forebay Campground - Trail Maintenance	Building Construction	6/1/2021	6/11/2021	5	10	

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3	3b - Grizzly Forebay Campground - Lockers	Building Construction	6/1/2021	6/15/2021	5	14
4	3c - Grizzly Forebay Campground - Fuel Treatment	Building Construction	6/1/2021	6/6/2021	5	5
5	4a - Grizzly Forebay Rec Area - Trail Maintenance	Building Construction	6/1/2021	6/11/2021	5	10
6	12b - Sundew Campground - Replace Water	Building Construction	6/1/2022	6/15/2022	5	14
7	4b - Grizzly Forebay Rec Area - Replace Bathroom	Building Construction	6/1/2023	6/4/2023	5	3
8	4c - Grizzly Forebay Rec Area - Signage	Building Construction	6/1/2023	6/3/2023	5	2
9	11d - Sandy Point Day Use - Replace Water	Building Construction	6/1/2024	6/15/2024	5	14
10	15 - Gravel Augmentation Plan	Building Construction	6/1/2024	6/6/2024	5	5
11	10a - Mill Creek Campground - Reconstruct	Building Construction	6/1/2025	8/28/2025	5	88
12	10b - Mill Creek Campground - Trail	Building Construction	6/1/2025	6/11/2025	5	10
13	10c - Mill Creek Campground - Replace Water	Building Construction	6/1/2025	6/15/2025	5	14
14	8a - Lower Bucks Campground - Add Capacity	Building Construction	6/1/2026	8/24/2026	5	84
15	8b - Lower Bucks Campground - Add Electrical	Building Construction	6/1/2026	6/6/2026	5	5
16	5a - Haskins Valley Campground - Food Storage	Building Construction	6/1/2027	6/3/2027	5	2
17	5b - Haskins Valley Campground - Improvements	Building Construction	6/1/2027	6/11/2027	5	10
18	5e - Haskins Valley Campground - Add Electrical	Building Construction	6/1/2027	6/15/2027	5	14
19	9a - Lower Bucks Day Use - Convert Campsites	Building Construction	6/1/2027	6/11/2027	5	10
20	5d - Haskins Valley Campground - Add Sites	Building Construction	6/1/2028	6/17/2028	5	16
21	9b - Lower Bucks Day Use - Reconstruct	Building Construction	6/1/2028	6/11/2028	5	10
22	6a - Hutchins Group Campground - Reconstruct	Building Construction	6/1/2029	10/19/2029	5	140
23	6b - Hutchins Group Campground - Trail	Building Construction	6/1/2029	6/11/2029	5	10
24	2 - Bucks Lake Inlet Parking signage	Building Construction	6/1/2030	6/3/2030	5	2

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25	13a - West End Cove Day Use - Trail	Building Construction	6/1/2030	6/23/2030	5	22
26	14a - Bucks Boat-In Campground - Demo	Building Construction	6/1/2031	6/9/2031	5	8
27	14b - Bucks Boat-In Campground - Construct Sites	Building Construction	6/1/2031	6/23/2031	5	22
28	14c - Bucks Boat-In Campground - Fuel Treatment	Building Construction	6/1/2031	6/6/2031	5	5
29	7a - Indian Rock Day Use - Reconstruct	Building Construction	6/1/2032	7/3/2032	5	32
30	7b - Indian Rock Day Use - Trails	Building Construction	6/1/2032	6/11/2032	5	10
31	12a - Sundew Campground - Reconstruct	Building Construction	6/1/2034	9/21/2034	5	112
32	11a - Sandy Point Day Use - Trail and Parking	Building Construction	6/1/2035	9/21/2035	5	112
33	11b - Sandy Point Day Use - Boat Launch	Building Construction	6/1/2035	7/13/2035	5	42
34	11c - Sandy Point Day Use - Reconstruct	Building Construction	6/1/2035	10/19/2035	5	140
35	3d - Grizzly Forebay Campground - Reconstruct	Building Construction	6/1/2036	7/27/2036	5	56
36	4d - Grizzly Forebay Rec Area - Reconstruct	Building Construction	6/1/2037	6/11/2037	5	10
37	13b - West End Cove Day Use - Reconstruct	Building Construction	6/1/2039	6/29/2039	5	28
38	5c - Haskins Valley Campground - Reconstruct	Building Construction	6/1/2040	10/13/2040	5	134

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1 - Howell-Bunger valve	Generator Sets	1	5.00	84	0.74

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2 - Bucks Lake Inlet Parking signage	Excavators	1	8.00	70	0.38
2 - Bucks Lake Inlet Parking signage	Off-Highway Trucks	1	4.00	402	0.38
2 - Bucks Lake Inlet Parking signage	Off-Highway Trucks	1	8.00	402	0.38
2 - Bucks Lake Inlet Parking signage	Generator Sets	1	8.00	84	0.74
3a - Grizzly Forebay Campground - Trail Maintenance	Other General Industrial Equipment	2	8.00	4	0.34
3a - Grizzly Forebay Campground - Trail Maintenance	Other General Industrial Equipment	2	8.00	2	0.34
3b - Grizzly Forebay Campground - Lockers	Other General Industrial Equipment	1	2.00	4	0.34
3c - Grizzly Forebay Campground - Fuel Treatment	Tractors/Loaders/Backhoes	1	7.00	97	0.37
3c - Grizzly Forebay Campground - Fuel Treatment	Other General Industrial Equipment	1	7.00	25	0.34
3c - Grizzly Forebay Campground - Fuel Treatment	Excavators	1	7.00	158	0.38
3c - Grizzly Forebay Campground - Fuel Treatment	Skid Steer Loaders	1	7.00	65	0.37
3c - Grizzly Forebay Campground - Fuel Treatment	Other General Industrial Equipment	3	7.00	4	0.34
3d - Grizzly Forebay Campground - Reconstruct	Generator Sets	1	8.00	84	0.74
3d - Grizzly Forebay Campground - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
3d - Grizzly Forebay Campground - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
3d - Grizzly Forebay Campground - Reconstruct	Cranes	1	8.00	231	0.29
3d - Grizzly Forebay Campground - Reconstruct	Paving Equipment	1	8.00	132	0.36
3d - Grizzly Forebay Campground - Reconstruct	Plate Compactors	1	8.00	8	0.43
4a - Grizzly Forebay Rec Area - Trail Maintenance	Other General Industrial Equipment	2	8.00	4	0.34
4a - Grizzly Forebay Rec Area - Trail Maintenance	Other General Industrial Equipment	2	8.00	2	0.34
4b - Grizzly Forebay Rec Area - Replace Bathroom	Excavators	1	8.00	158	0.38
4b - Grizzly Forebay Rec Area - Replace Bathroom	Off-Highway Trucks	1	8.00	402	0.38
4b - Grizzly Forebay Rec Area - Replace Bathroom	Rollers	1	8.00	80	0.38

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4b - Grizzly Forebay Rec Area - Replace Bathroom	Off-Highway Trucks	1	8.00	402	0.38
4b - Grizzly Forebay Rec Area - Replace Bathroom	Cranes	1	5.00	231	0.29
4c - Grizzly Forebay Rec Area - Signage	Excavators	1	8.00	70	0.38
4c - Grizzly Forebay Rec Area - Signage	Off-Highway Trucks	1	4.00	402	0.38
4c - Grizzly Forebay Rec Area - Signage	Off-Highway Trucks	1	8.00	402	0.38
4c - Grizzly Forebay Rec Area - Signage	Generator Sets	1	8.00	84	0.74
4d - Grizzly Forebay Rec Area - Reconstruct	Generator Sets	1	2.00	84	0.74
4d - Grizzly Forebay Rec Area - Reconstruct	Other General Industrial Equipment	1	2.00	4	0.34
4d - Grizzly Forebay Rec Area - Reconstruct	Tractors/Loaders/Backhoes	1	4.00	97	0.37
4d - Grizzly Forebay Rec Area - Reconstruct	Off-Highway Trucks	1	4.00	402	0.38
4d - Grizzly Forebay Rec Area - Reconstruct	Cranes	1	4.00	231	0.29
4d - Grizzly Forebay Rec Area - Reconstruct	Plate Compactors	1	4.00	8	0.43
5a - Haskins Valley Campground - Food Storage	Other General Industrial Equipment	1	8.00	4	0.34
5a - Haskins Valley Campground - Food Storage	Tractors/Loaders/Backhoes	1	8.00	97	0.37
5b - Haskins Valley Campground - Improvements	Skid Steer Loaders	1	8.00	65	0.37
5b - Haskins Valley Campground - Improvements	Excavators	1	8.00	70	0.38
5b - Haskins Valley Campground - Improvements	Off-Highway Trucks	1	8.00	402	0.38
5b - Haskins Valley Campground - Improvements	Off-Highway Trucks	1	8.00	402	0.38
5b - Haskins Valley Campground - Improvements	Plate Compactors	1	8.00	8	0.43
5c - Haskins Valley Campground - Reconstruct	Generator Sets	2	8.00	84	0.74
5c - Haskins Valley Campground - Reconstruct	Bore/Drill Rigs	1	8.00	221	0.50
5c - Haskins Valley Campground - Reconstruct	Tractors/Loaders/Backhoes	2	6.00	97	0.37

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5c - Haskins Valley Campground - Reconstruct	Skid Steer Loaders	1	6.00	65	0.37
5c - Haskins Valley Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
5c - Haskins Valley Campground - Reconstruct	Off-Highway Trucks	1	2.00	402	0.38
5c - Haskins Valley Campground - Reconstruct	Plate Compactors	1	2.00	8	0.43
5c - Haskins Valley Campground - Reconstruct	Cranes	1	4.00	231	0.29
5c - Haskins Valley Campground - Reconstruct	Paving Equipment	1	6.00	132	0.36
5c - Haskins Valley Campground - Reconstruct	Rollers	1	8.00	80	0.38
5d - Haskins Valley Campground - Add Sites	Skid Steer Loaders	1	8.00	65	0.37
5d - Haskins Valley Campground - Add Sites	Excavators	1	8.00	70	0.38
5d - Haskins Valley Campground - Add Sites	Off-Highway Trucks	1	8.00	402	0.38
5d - Haskins Valley Campground - Add Sites	Off-Highway Trucks	1	8.00	402	0.38
5d - Haskins Valley Campground - Add Sites	Plate Compactors	1	8.00	8	0.43
5e - Haskins Valley Campground - Add Electrical	Tractors/Loaders/Backhoes	2	8.00	97	0.37
6a - Hutchins Group Campground - Reconstruct	Generator Sets	1	8.00	84	0.74
6a - Hutchins Group Campground - Reconstruct	Bore/Drill Rigs	1	8.00	221	0.50
6a - Hutchins Group Campground - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
6a - Hutchins Group Campground - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
6a - Hutchins Group Campground - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
6a - Hutchins Group Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
6a - Hutchins Group Campground - Reconstruct	Cranes	1	8.00	231	0.29
6a - Hutchins Group Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
6a - Hutchins Group Campground - Reconstruct	Paving Equipment	1	8.00	132	0.36

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6a - Hutchins Group Campground - Reconstruct	Plate Compactors	1	8.00	8	0.43
6b - Hutchins Group Campground - Trail	Other General Industrial Equipment	2	8.00	4	0.34
6b - Hutchins Group Campground - Trail	Other General Industrial Equipment	2	8.00	2	0.34
7a - Indian Rock Day Use - Reconstruct	Generator Sets	1	8.00	84	0.74
7a - Indian Rock Day Use - Reconstruct	Other General Industrial Equipment	1	2.00	4	0.34
7a - Indian Rock Day Use - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
7a - Indian Rock Day Use - Reconstruct	Excavators	1	8.00	158	0.38
7a - Indian Rock Day Use - Reconstruct	Rollers	1	8.00	80	0.38
7a - Indian Rock Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
7a - Indian Rock Day Use - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
7a - Indian Rock Day Use - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
7a - Indian Rock Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
7a - Indian Rock Day Use - Reconstruct	Cranes	1	8.00	231	0.29
7a - Indian Rock Day Use - Reconstruct	Paving Equipment	1	8.00	132	0.36
7a - Indian Rock Day Use - Reconstruct	Plate Compactors	1	8.00	8	0.43
7b - Indian Rock Day Use - Trails	Other General Industrial Equipment	2	8.00	4	0.34
7b - Indian Rock Day Use - Trails	Other General Industrial Equipment	2	8.00	2	0.34
8a - Lower Bucks Campground - Add Capacity	Skid Steer Loaders	1	8.00	65	0.37
8a - Lower Bucks Campground - Add Capacity	Excavators	1	8.00	70	0.38
8a - Lower Bucks Campground - Add Capacity	Off-Highway Trucks	1	8.00	402	0.38
8a - Lower Bucks Campground - Add Capacity	Off-Highway Trucks	1	8.00	402	0.38
8a - Lower Bucks Campground - Add Capacity	Paving Equipment	1	8.00	132	0.36
8a - Lower Bucks Campground - Add Capacity	Plate Compactors	1	8.00	8	0.43
8a - Lower Bucks Campground - Add Capacity	Rubber Tired Dozers	1	8.00	247	0.40
8a - Lower Bucks Campground - Add Capacity	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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8a - Lower Bucks Campground - Add Capacity	Skid Steer Loaders	1	8.00	65	0.37
8a - Lower Bucks Campground - Add Capacity	Tractors/Loaders/Backhoes	1	8.00	97	0.37
8a - Lower Bucks Campground - Add Capacity	Off-Highway Trucks	1	8.00	402	0.38
8a - Lower Bucks Campground - Add Capacity	Tractors/Loaders/Backhoes	1	8.00	97	0.37
8a - Lower Bucks Campground - Add Capacity	Skid Steer Loaders	1	8.00	65	0.37
8a - Lower Bucks Campground - Add Capacity	Off-Highway Trucks	1	8.00	402	0.38
8a - Lower Bucks Campground - Add Capacity	Cranes	1	8.00	231	0.29
8a - Lower Bucks Campground - Add Capacity	Generator Sets	1	8.00	84	0.74
8b - Lower Bucks Campground - Add Electrical	Tractors/Loaders/Backhoes	1	8.00	97	0.37
9a - Lower Bucks Day Use - Convert Campsites	Excavators	1	8.00	70	0.38
9a - Lower Bucks Day Use - Convert Campsites	Off-Highway Trucks	1	4.00	402	0.38
9a - Lower Bucks Day Use - Convert Campsites	Off-Highway Trucks	1	8.00	402	0.38
9a - Lower Bucks Day Use - Convert Campsites	Generator Sets	1	8.00	84	0.74
9a - Lower Bucks Day Use - Convert Campsites	Other General Industrial Equipment	1	2.00	4	0.34
9b - Lower Bucks Day Use - Reconstruct	Excavators	1	8.00	70	0.38
9b - Lower Bucks Day Use - Reconstruct	Off-Highway Trucks	1	4.00	402	0.38
9b - Lower Bucks Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
9b - Lower Bucks Day Use - Reconstruct	Generator Sets	1	8.00	84	0.74
9b - Lower Bucks Day Use - Reconstruct	Other General Industrial Equipment	1	2.00	4	0.34
10a - Mill Creek Campground - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
10a - Mill Creek Campground - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	70	0.37
10a - Mill Creek Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38

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10a - Mill Creek Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
10a - Mill Creek Campground - Reconstruct	Paving Equipment	1	8.00	132	0.36
10a - Mill Creek Campground - Reconstruct	Cranes	1	8.00	231	0.29
10a - Mill Creek Campground - Reconstruct	Plate Compactors	1	8.00	8	0.43
10a - Mill Creek Campground - Reconstruct	Generator Sets	1	2.00	84	0.74
10b - Mill Creek Campground - Trail	Other General Industrial Equipment	2	8.00	4	0.34
10b - Mill Creek Campground - Trail	Other General Industrial Equipment	2	8.00	2	0.34
10c - Mill Creek Campground - Replace Water	Bore/Drill Rigs	1	8.00	221	0.50
10c - Mill Creek Campground - Replace Water	Tractors/Loaders/Backhoes	1	8.00	97	0.37
11a - Sandy Point Day Use - Trail and Parking	Other General Industrial Equipment	2	4.00	4	0.34
11a - Sandy Point Day Use - Trail and Parking	Other General Industrial Equipment	2	4.00	2	0.34
11a - Sandy Point Day Use - Trail and Parking	Skid Steer Loaders	1	4.00	65	0.37
11a - Sandy Point Day Use - Trail and Parking	Paving Equipment	1	8.00	132	0.36
11a - Sandy Point Day Use - Trail and Parking	Plate Compactors	1	8.00	8	0.43
11b - Sandy Point Day Use - Boat Launch	Skid Steer Loaders	1	8.00	65	0.37
11b - Sandy Point Day Use - Boat Launch	Off-Highway Trucks	1	8.00	402	0.38
11b - Sandy Point Day Use - Boat Launch	Tractors/Loaders/Backhoes	1	8.00	97	0.37
11b - Sandy Point Day Use - Boat Launch	Excavators	1	8.00	158	0.38
11b - Sandy Point Day Use - Boat Launch	Rubber Tired Dozers	1	8.00	247	0.40
11b - Sandy Point Day Use - Boat Launch	Rollers	1	8.00	80	0.38
11b - Sandy Point Day Use - Boat Launch	Off-Highway Trucks	2	4.00	402	0.38
11c - Sandy Point Day Use - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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11c - Sandy Point Day Use - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
11c - Sandy Point Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
11c - Sandy Point Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
11c - Sandy Point Day Use - Reconstruct	Cranes	1	8.00	231	0.29
11c - Sandy Point Day Use - Reconstruct	Paving Equipment	1	8.00	132	0.36
11c - Sandy Point Day Use - Reconstruct	Plate Compactors	1	8.00	8	0.43
11c - Sandy Point Day Use - Reconstruct	Generator Sets	1	8.00	84	0.74
11d - Sandy Point Day Use - Replace Water	Bore/Drill Rigs	1	8.00	221	0.50
11d - Sandy Point Day Use - Replace Water	Tractors/Loaders/Backhoes	1	8.00	97	0.37
12a - Sundew Campground - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
12a - Sundew Campground - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
12a - Sundew Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
12a - Sundew Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
12a - Sundew Campground - Reconstruct	Cranes	1	8.00	231	0.29
12a - Sundew Campground - Reconstruct	Paving Equipment	1	8.00	132	0.36
12a - Sundew Campground - Reconstruct	Plate Compactors	1	8.00	8	0.43
12a - Sundew Campground - Reconstruct	Generator Sets	1	2.00	84	0.74
12b - Sundew Campground - Replace Water	Bore/Drill Rigs	1	8.00	221	0.50
12b - Sundew Campground - Replace Water	Tractors/Loaders/Backhoes	1	8.00	97	0.37
13a - West End Cove Day Use - Trail	Other General Industrial Equipment	2	8.00	4	0.34
13a - West End Cove Day Use - Trail	Other General Industrial Equipment	2	8.00	2	0.34
13a - West End Cove Day Use - Trail	Generator Sets	1	8.00	84	0.74
13a - West End Cove Day Use - Trail	Excavators	1	8.00	70	0.38

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13a - West End Cove Day Use - Trail	Off-Highway Trucks	1	8.00	402	0.38
13a - West End Cove Day Use - Trail	Plate Compactors	1	8.00	8	0.43
13a - West End Cove Day Use - Trail	Skid Steer Loaders	1	8.00	65	0.37
13a - West End Cove Day Use - Trail	Tractors/Loaders/Backhoes	1	8.00	97	0.37
13b - West End Cove Day Use - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
13b - West End Cove Day Use - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
13b - West End Cove Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
13b - West End Cove Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
13b - West End Cove Day Use - Reconstruct	Cranes	1	8.00	231	0.29
13b - West End Cove Day Use - Reconstruct	Paving Equipment	1	8.00	132	0.36
13b - West End Cove Day Use - Reconstruct	Plate Compactors	1	8.00	8	0.43
13b - West End Cove Day Use - Reconstruct	Generator Sets	1	8.00	84	0.74
14a - Bucks Boat-In Campground - Demo	Generator Sets	1	8.00	84	0.74
14b - Bucks Boat-In Campground - Construct Sites	Generator Sets	1	8.00	84	0.74
14b - Bucks Boat-In Campground - Construct Sites	Other General Industrial Equipment	2	8.00	4	0.34
14b - Bucks Boat-In Campground - Construct Sites	Other General Industrial Equipment	2	8.00	2	0.34
14b - Bucks Boat-In Campground - Construct Sites	Skid Steer Loaders	1	8.00	65	0.37
14b - Bucks Boat-In Campground - Construct Sites	Excavators	1	8.00	70	0.38
14c - Bucks Boat-In Campground - Fuel Treatment	Other General Industrial Equipment	3	6.00	4	0.34
15 - Gravel Augmentation Plan	Skid Steer Loaders	1	2.00	65	0.37

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1 - Howell-Bunger Valve	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
2 - Bucks Lake Inlet Parking signage	4	10.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
3a - Grizzly Forebay Campground - Trail Maint	4	10.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
3b - Grizzly Forebay Campground - Locker	1	4.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
3c - Grizzly Forebay Campground - Fuel Tr	7	18.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
3d - Grizzly Forebay Campground - Recre	6	16.00	0.00	8.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
4a - Grizzly Forebay Rec Area - Trail Maint	4	10.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
4b - Grizzly Forebay Rec Area - Replace B	5	14.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
4c - Grizzly Forebay Rec Area - Signage	4	10.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
4d - Grizzly Forebay Rec Area - Reconstru	6	16.00	0.00	6.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
5a - Haskins Valley Campground - Food S	2	6.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
5b - Haskins Valley Campground - Improv	5	14.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
5c - Haskins Valley Campground - Recre	12	30.00	0.00	52.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
5d - Haskins Valley Campground - Add Sit	5	14.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
5e - Haskins Valley Campground - Add El	2	6.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
6a - Hutchins Group Campground - Recre	10	26.00	0.00	12.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
6b - Hutchins Group Campground - Trail	4	10.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
7a - Indian Rock Day Use - Reconstruct	12	30.00	0.00	16.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
7b - Indian Rock Day Use - Trails	4	10.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
8a - Lower Bucks Campground - Add Ca	16	38.00	0.00	50.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
8b - Lower Bucks Campground - Add El	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
9a - Lower Bucks Day Use - Convert Campsi	5	5.00	14.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
9b - Lower Bucks Day Use - Reconstruct	5	5.00	14.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
10a - Mill Creek Campground - Recre	8	20.00	0.00	8.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
10b - Mill Creek Campground - Trail	4	10.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT

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10c - Mill Creek Campground - Replan	2	6.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
11a - Sandy Point Day Use - Trail and Parkin	7	18.00	0.00	114.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
11b - Sandy Point Day Use - Boat Launch	8	20.00	0.00	20.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
11c - Sandy Point Day Use - Reconstruct	8	20.00	0.00	24.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
11d - Sandy Point Day Use - Replace Water	2	6.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
12a - Sundew Campground - Recons	8	20.00	0.00	12.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
12b - Sundew Campground - Replan	2	6.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
13a - West End Cove Day Use - Trail	10	26.00	0.00	14.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
13b - West End Cove Day Use - Reconstruct	8	20.00	0.00	8.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
14a - Bucks Boat-In Campground - Demo	1	4.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
14b - Bucks Boat-In Campground - Constr	7	18.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
14c - Bucks Boat-In Campground - Fuel Tr	3	8.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
15 - Gravel Augmentation Plan	1	4.00	0.00	6.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 1 - Howell-Bunger valve - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.5000e-004	3.9600e-003	4.6100e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.7065	0.7065	4.0000e-005	0.0000	0.7074
Total	4.5000e-004	3.9600e-003	4.6100e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.7065	0.7065	4.0000e-005	0.0000	0.7074

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3.2 1 - Howell-Bunger valve - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	5.9000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1466	0.1466	0.0000	0.0000	0.1467
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	7.0000e-005	7.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0960	0.0960	1.0000e-005	0.0000	0.0962
Total	1.1000e-004	6.6000e-004	8.0000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2426	0.2426	1.0000e-005	0.0000	0.2429

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.5000e-004	3.9600e-003	4.6100e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.7065	0.7065	4.0000e-005	0.0000	0.7074
Total	4.5000e-004	3.9600e-003	4.6100e-003	1.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	0.7065	0.7065	4.0000e-005	0.0000	0.7074

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3.2 1 - Howell-Bunger valve - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	5.9000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1466	0.1466	0.0000	0.0000	0.1467
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	7.0000e-005	7.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0960	0.0960	1.0000e-005	0.0000	0.0962
Total	1.1000e-004	6.6000e-004	8.0000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2426	0.2426	1.0000e-005	0.0000	0.2429

3.3 3a - Grizzly Forebay Campground - Trail Maintenance - 2021

Unmitigated Construction On-Site

[illegible]

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3.3 3a - Grizzly Forebay Campground - Trail Maintenance - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	4.2000e-004	3.9800e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.5000e-004	1.0000e-005	1.5000e-004	0.0000	0.5400	0.5400	4.0000e-005	0.0000	0.5410
Total	5.6000e-004	4.2000e-004	3.9800e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.5000e-004	1.0000e-005	1.5000e-004	0.0000	0.5400	0.5400	4.0000e-005	0.0000	0.5410

Mitigated Construction On-Site

[illegible]

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3.3 3a - Grizzly Forebay Campground - Trail Maintenance - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	4.2000e-004	3.9800e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.5000e-004	1.0000e-005	1.5000e-004	0.0000	0.5400	0.5400	4.0000e-005	0.0000	0.5410
Total	5.6000e-004	4.2000e-004	3.9800e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.5000e-004	1.0000e-005	1.5000e-004	0.0000	0.5400	0.5400	4.0000e-005	0.0000	0.5410

3.4 3b - Grizzly Forebay Campground - Lockers - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	2.1000e-004	1.9500e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2640	0.2640	2.0000e-005	0.0000	0.2645
Total	2.7000e-004	2.1000e-004	1.9500e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2640	0.2640	2.0000e-005	0.0000	0.2645

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3.4 3b - Grizzly Forebay Campground - Lockers - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	2.1000e-004	1.9500e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2640	0.2640	2.0000e-005	0.0000	0.2645
Total	2.7000e-004	2.1000e-004	1.9500e-003	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2640	0.2640	2.0000e-005	0.0000	0.2645

3.5 3c - Grizzly Forebay Campground - Fuel Treatment - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0800e-003	0.0100	0.0135	2.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	1.7149	1.7149	5.5000e-004	0.0000	1.7287
Total	1.0800e-003	0.0100	0.0135	2.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	1.7149	1.7149	5.5000e-004	0.0000	1.7287

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3.5 3c - Grizzly Forebay Campground - Fuel Treatment - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.4000e-004	3.1800e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4320	0.4320	3.0000e-005	0.0000	0.4328
Total	4.5000e-004	3.4000e-004	3.1800e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4320	0.4320	3.0000e-005	0.0000	0.4328

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.0800e-003	0.0100	0.0135	2.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	1.7149	1.7149	5.5000e-004	0.0000	1.7287
Total	1.0800e-003	0.0100	0.0135	2.0000e-005		5.3000e-004	5.3000e-004		4.8000e-004	4.8000e-004	0.0000	1.7149	1.7149	5.5000e-004	0.0000	1.7287

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3.5 3c - Grizzly Forebay Campground - Fuel Treatment - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.5000e-004	3.4000e-004	3.1800e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4320	0.4320	3.0000e-005	0.0000	0.4328
Total	4.5000e-004	3.4000e-004	3.1800e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4320	0.4320	3.0000e-005	0.0000	0.4328

3.6 4a - Grizzly Forebay Rec Area - Trail Maintenance - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	4.2000e-004	3.9800e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.5000e-004	1.0000e-005	1.5000e-004	0.0000	0.5400	0.5400	4.0000e-005	0.0000	0.5410
Total	5.6000e-004	4.2000e-004	3.9800e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.5000e-004	1.0000e-005	1.5000e-004	0.0000	0.5400	0.5400	4.0000e-005	0.0000	0.5410

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3.6 4a - Grizzly Forebay Rec Area - Trail Maintenance - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	4.2000e-004	3.9800e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.5000e-004	1.0000e-005	1.5000e-004	0.0000	0.5400	0.5400	4.0000e-005	0.0000	0.5410
Total	5.6000e-004	4.2000e-004	3.9800e-003	1.0000e-005	5.5000e-004	1.0000e-005	5.6000e-004	1.5000e-004	1.0000e-005	1.5000e-004	0.0000	0.5400	0.5400	4.0000e-005	0.0000	0.5410

3.7 12b - Sundew Campground - Replace Water - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1400e-003	0.0217	0.0235	7.0000e-005		9.0000e-004	9.0000e-004		8.2000e-004	8.2000e-004	0.0000	6.0613	6.0613	1.9600e-003	0.0000	6.1103
Total	2.1400e-003	0.0217	0.0235	7.0000e-005		9.0000e-004	9.0000e-004		8.2000e-004	8.2000e-004	0.0000	6.0613	6.0613	1.9600e-003	0.0000	6.1103

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3.7 12b - Sundew Campground - Replace Water - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.3000e-004	1.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1709	0.1709	0.0000	0.0000	0.1710
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.7000e-004	2.5600e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3829	0.3829	2.0000e-005	0.0000	0.3835
Total	4.0000e-004	9.0000e-004	2.6600e-003	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.5538	0.5538	2.0000e-005	0.0000	0.5545

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1400e-003	0.0217	0.0235	7.0000e-005		9.0000e-004	9.0000e-004		8.2000e-004	8.2000e-004	0.0000	6.0613	6.0613	1.9600e-003	0.0000	6.1103
Total	2.1400e-003	0.0217	0.0235	7.0000e-005		9.0000e-004	9.0000e-004		8.2000e-004	8.2000e-004	0.0000	6.0613	6.0613	1.9600e-003	0.0000	6.1103

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3.7 12b - Sundew Campground - Replace Water - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.3000e-004	1.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1709	0.1709	0.0000	0.0000	0.1710
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8000e-004	2.7000e-004	2.5600e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3829	0.3829	2.0000e-005	0.0000	0.3835
Total	4.0000e-004	9.0000e-004	2.6600e-003	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.5538	0.5538	2.0000e-005	0.0000	0.5545

3.8 4b - Grizzly Forebay Rec Area - Replace Bathroom - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5700e-003	0.0127	0.0128	4.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	3.3233	3.3233	1.0700e-003	0.0000	3.3501
Total	1.5700e-003	0.0127	0.0128	4.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	3.3233	3.3233	1.0700e-003	0.0000	3.3501

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3.8 4b - Grizzly Forebay Rec Area - Replace Bathroom - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.0000e-004	8.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1411	0.1411	0.0000	0.0000	0.1412
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	9.4000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1568	0.1568	1.0000e-005	0.0000	0.1570
Total	1.6000e-004	5.0000e-004	1.0200e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2978	0.2978	1.0000e-005	0.0000	0.2981

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5700e-003	0.0127	0.0128	4.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	3.3232	3.3232	1.0700e-003	0.0000	3.3501
Total	1.5700e-003	0.0127	0.0128	4.0000e-005		5.2000e-004	5.2000e-004		4.8000e-004	4.8000e-004	0.0000	3.3232	3.3232	1.0700e-003	0.0000	3.3501

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3.8 4b - Grizzly Forebay Rec Area - Replace Bathroom - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.0000e-004	8.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1411	0.1411	0.0000	0.0000	0.1412
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	9.4000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1568	0.1568	1.0000e-005	0.0000	0.1570
Total	1.6000e-004	5.0000e-004	1.0200e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2978	0.2978	1.0000e-005	0.0000	0.2981

3.9 4c - Grizzly Forebay Rec Area - Signage - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1700e-003	9.1800e-003	0.0102	3.0000e-005		3.8000e-004	3.8000e-004		3.6000e-004	3.6000e-004	0.0000	2.5057	2.5057	6.5000e-004	0.0000	2.5220
Total	1.1700e-003	9.1800e-003	0.0102	3.0000e-005		3.8000e-004	3.8000e-004		3.6000e-004	3.6000e-004	0.0000	2.5057	2.5057	6.5000e-004	0.0000	2.5220

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3.9 4c - Grizzly Forebay Rec Area - Signage - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.0000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1058	0.1058	0.0000	0.0000	0.1059
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	6.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1120	0.1120	1.0000e-005	0.0000	0.1121
Total	1.2000e-004	3.7000e-004	7.3000e-004	0.0000	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2178	0.2178	1.0000e-005	0.0000	0.2180

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1700e-003	9.1800e-003	0.0102	3.0000e-005		3.8000e-004	3.8000e-004		3.6000e-004	3.6000e-004	0.0000	2.5057	2.5057	6.5000e-004	0.0000	2.5220
Total	1.1700e-003	9.1800e-003	0.0102	3.0000e-005		3.8000e-004	3.8000e-004		3.6000e-004	3.6000e-004	0.0000	2.5057	2.5057	6.5000e-004	0.0000	2.5220

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3.9 4c - Grizzly Forebay Rec Area - Signage - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.0000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1058	0.1058	0.0000	0.0000	0.1059
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	7.0000e-005	6.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1120	0.1120	1.0000e-005	0.0000	0.1121
Total	1.2000e-004	3.7000e-004	7.3000e-004	0.0000	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2178	0.2178	1.0000e-005	0.0000	0.2180

3.10 11d - Sandy Point Day Use - Replace Water - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7700e-003	0.0168	0.0214	6.0000e-005		6.5000e-004	6.5000e-004		5.9000e-004	5.9000e-004	0.0000	5.5299	5.5299	1.7900e-003	0.0000	5.5746
Total	1.7700e-003	0.0168	0.0214	6.0000e-005		6.5000e-004	6.5000e-004		5.9000e-004	5.9000e-004	0.0000	5.5299	5.5299	1.7900e-003	0.0000	5.5746

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3.10 11d - Sandy Point Day Use - Replace Water - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.0000e-004	8.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1500	0.1500	0.0000	0.0000	0.1501
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.0000e-004	1.7900e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3236	0.3236	2.0000e-005	0.0000	0.3240
Total	3.1000e-004	6.0000e-004	1.8700e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4737	0.4737	2.0000e-005	0.0000	0.4742

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7700e-003	0.0168	0.0214	6.0000e-005		6.5000e-004	6.5000e-004		5.9000e-004	5.9000e-004	0.0000	5.5299	5.5299	1.7900e-003	0.0000	5.5746
Total	1.7700e-003	0.0168	0.0214	6.0000e-005		6.5000e-004	6.5000e-004		5.9000e-004	5.9000e-004	0.0000	5.5299	5.5299	1.7900e-003	0.0000	5.5746

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3.10 11d - Sandy Point Day Use - Replace Water - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.0000e-004	8.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1500	0.1500	0.0000	0.0000	0.1501
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.0000e-004	1.7900e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3236	0.3236	2.0000e-005	0.0000	0.3240
Total	3.1000e-004	6.0000e-004	1.8700e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4737	0.4737	2.0000e-005	0.0000	0.4742

3.11 15 - Gravel Augmentation Plan - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0000e-005	4.1000e-004	6.9000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.0910	0.0910	3.0000e-005	0.0000	0.0917
Total	3.0000e-005	4.1000e-004	6.9000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.0910	0.0910	3.0000e-005	0.0000	0.0917

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3.11 15 - Gravel Augmentation Plan - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.7000e-004	1.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2520	0.2520	1.0000e-005	0.0000	0.2522
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	4.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0863	0.0863	0.0000	0.0000	0.0864
Total	1.0000e-004	7.2000e-004	6.2000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.3383	0.3383	1.0000e-005	0.0000	0.3386

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0000e-005	4.1000e-004	6.9000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.0910	0.0910	3.0000e-005	0.0000	0.0917
Total	3.0000e-005	4.1000e-004	6.9000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.0910	0.0910	3.0000e-005	0.0000	0.0917

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3.11 15 - Gravel Augmentation Plan - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.7000e-004	1.4000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2520	0.2520	1.0000e-005	0.0000	0.2522
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	4.8000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0863	0.0863	0.0000	0.0000	0.0864
Total	1.0000e-004	7.2000e-004	6.2000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.3383	0.3383	1.0000e-005	0.0000	0.3386

3.12 10a - Mill Creek Campground - Reconstruct - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9000e-004	0.0000	3.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0536	0.4087	0.4726	1.3700e-003		0.0160	0.0160		0.0148	0.0148	0.0000	119.6377	119.6377	0.0372	0.0000	120.5671
Total	0.0536	0.4087	0.4726	1.3700e-003	3.9000e-004	0.0160	0.0164	4.0000e-005	0.0148	0.0148	0.0000	119.6377	119.6377	0.0372	0.0000	120.5671

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3.12 10a - Mill Creek Campground - Reconstruct - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	7.6000e-004	1.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3035	0.3035	1.0000e-005	0.0000	0.3037
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9300e-003	3.7700e-003	0.0347	7.0000e-005	7.8200e-003	7.0000e-005	7.8900e-003	2.0800e-003	6.0000e-005	2.1400e-003	0.0000	6.6453	6.6453	3.1000e-004	0.0000	6.6530
Total	5.9500e-003	4.5300e-003	0.0349	7.0000e-005	7.9100e-003	7.0000e-005	7.9800e-003	2.1000e-003	6.0000e-005	2.1700e-003	0.0000	6.9488	6.9488	3.2000e-004	0.0000	6.9567

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9000e-004	0.0000	3.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0536	0.4087	0.4726	1.3700e-003		0.0160	0.0160		0.0148	0.0148	0.0000	119.6375	119.6375	0.0372	0.0000	120.5670
Total	0.0536	0.4087	0.4726	1.3700e-003	3.9000e-004	0.0160	0.0164	4.0000e-005	0.0148	0.0148	0.0000	119.6375	119.6375	0.0372	0.0000	120.5670

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3.12 10a - Mill Creek Campground - Reconstruct - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	7.6000e-004	1.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3035	0.3035	1.0000e-005	0.0000	0.3037
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9300e-003	3.7700e-003	0.0347	7.0000e-005	7.8200e-003	7.0000e-005	7.8900e-003	2.0800e-003	6.0000e-005	2.1400e-003	0.0000	6.6453	6.6453	3.1000e-004	0.0000	6.6530
Total	5.9500e-003	4.5300e-003	0.0349	7.0000e-005	7.9100e-003	7.0000e-005	7.9800e-003	2.1000e-003	6.0000e-005	2.1700e-003	0.0000	6.9488	6.9488	3.2000e-004	0.0000	6.9567

3.13 10b - Mill Creek Campground - Trail - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	:	:	:	:	4.2000e-004	0.0000	4.2000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					4.2000e-004	0.0000	4.2000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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3.13 10b - Mill Creek Campground - Trail - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.4000e-004	2.1700e-003	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4153	0.4153	2.0000e-005	0.0000	0.4158
Total	3.7000e-004	2.4000e-004	2.1700e-003	0.0000	4.9000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4153	0.4153	2.0000e-005	0.0000	0.4158

3.14 10c - Mill Creek Campground - Replace Water - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7100e-003	0.0160	0.0213	6.0000e-005		5.8000e-004	5.8000e-004		5.3000e-004	5.3000e-004	0.0000	5.5307	5.5307	1.7900e-003	0.0000	5.5754
Total	1.7100e-003	0.0160	0.0213	6.0000e-005		5.8000e-004	5.8000e-004		5.3000e-004	5.3000e-004	0.0000	5.5307	5.5307	1.7900e-003	0.0000	5.5754

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3.14 10c - Mill Creek Campground - Replace Water - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.7000e-004	8.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1491	0.1491	0.0000	0.0000	0.1492
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.8000e-004	1.6300e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3115	0.3115	1.0000e-005	0.0000	0.3119
Total	2.9000e-004	5.5000e-004	1.7100e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4606	0.4606	1.0000e-005	0.0000	0.4610

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7100e-003	0.0160	0.0213	6.0000e-005		5.8000e-004	5.8000e-004		5.3000e-004	5.3000e-004	0.0000	5.5307	5.5307	1.7900e-003	0.0000	5.5754
Total	1.7100e-003	0.0160	0.0213	6.0000e-005		5.8000e-004	5.8000e-004		5.3000e-004	5.3000e-004	0.0000	5.5307	5.5307	1.7900e-003	0.0000	5.5754

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3.14 10c - Mill Creek Campground - Replace Water - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.7000e-004	8.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1491	0.1491	0.0000	0.0000	0.1492
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.8000e-004	1.6300e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3115	0.3115	1.0000e-005	0.0000	0.3119
Total	2.9000e-004	5.5000e-004	1.7100e-003	0.0000	4.2000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4606	0.4606	1.0000e-005	0.0000	0.4610

3.15 8a - Lower Bucks Campground - Add Capacity - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9000e-004	0.0000	3.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1218	0.9923	1.1081	2.9300e-003		0.0389	0.0389		0.0361	0.0361	0.0000	256.8492	256.8492	0.0779	0.0000	258.7973
Total	0.1218	0.9923	1.1081	2.9300e-003	3.9000e-004	0.0389	0.0393	4.0000e-005	0.0361	0.0361	0.0000	256.8492	256.8492	0.0779	0.0000	258.7973

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3.15 8a - Lower Bucks Campground - Add Capacity - 2026**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	4.5100e-003	1.0400e-003	2.0000e-005	5.8000e-004	1.0000e-005	5.9000e-004	1.5000e-004	1.0000e-005	1.7000e-004	0.0000	1.8845	1.8845	4.0000e-005	0.0000	1.8856
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9400e-003	6.1700e-003	0.0572	1.3000e-004	0.0142	1.2000e-004	0.0143	3.7700e-003	1.1000e-004	3.8800e-003	0.0000	11.6111	11.6111	4.9000e-004	0.0000	11.6234
Total	0.0101	0.0107	0.0583	1.5000e-004	0.0147	1.3000e-004	0.0149	3.9200e-003	1.2000e-004	4.0500e-003	0.0000	13.4955	13.4955	5.3000e-004	0.0000	13.5090

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9000e-004	0.0000	3.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1218	0.9923	1.1081	2.9300e-003		0.0389	0.0389		0.0361	0.0361	0.0000	256.8489	256.8489	0.0779	0.0000	258.7970
Total	0.1218	0.9923	1.1081	2.9300e-003	3.9000e-004	0.0389	0.0393	4.0000e-005	0.0361	0.0361	0.0000	256.8489	256.8489	0.0779	0.0000	258.7970

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3.15 8a - Lower Bucks Campground - Add Capacity - 2026**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.3000e-004	4.5100e-003	1.0400e-003	2.0000e-005	5.8000e-004	1.0000e-005	5.9000e-004	1.5000e-004	1.0000e-005	1.7000e-004	0.0000	1.8845	1.8845	4.0000e-005	0.0000	1.8856
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.9400e-003	6.1700e-003	0.0572	1.3000e-004	0.0142	1.2000e-004	0.0143	3.7700e-003	1.1000e-004	3.8800e-003	0.0000	11.6111	11.6111	4.9000e-004	0.0000	11.6234
Total	0.0101	0.0107	0.0583	1.5000e-004	0.0147	1.3000e-004	0.0149	3.9200e-003	1.2000e-004	4.0500e-003	0.0000	13.4955	13.4955	5.3000e-004	0.0000	13.5090

3.16 8b - Lower Bucks Campground - Add Electrical - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3000e-004	3.3400e-003	5.5700e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.2000e-004	1.2000e-004	0.0000	0.6851	0.6851	2.2000e-004	0.0000	0.6906
Total	3.3000e-004	3.3400e-003	5.5700e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.2000e-004	1.2000e-004	0.0000	0.6851	0.6851	2.2000e-004	0.0000	0.6906

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3.16 8b - Lower Bucks Campground - Add Electrical - 2026**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.5000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1002	0.1002	0.0000	0.0000	0.1003
Total	1.0000e-004	3.0000e-004	5.5000e-004	0.0000	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2040	0.2040	0.0000	0.0000	0.2042

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3000e-004	3.3400e-003	5.5700e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.2000e-004	1.2000e-004	0.0000	0.6851	0.6851	2.2000e-004	0.0000	0.6906
Total	3.3000e-004	3.3400e-003	5.5700e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.2000e-004	1.2000e-004	0.0000	0.6851	0.6851	2.2000e-004	0.0000	0.6906

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3.16 8b - Lower Bucks Campground - Add Electrical - 2026**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.5000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1002	0.1002	0.0000	0.0000	0.1003
Total	1.0000e-004	3.0000e-004	5.5000e-004	0.0000	1.4000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.2040	0.2040	0.0000	0.0000	0.2042

3.17 5a - Haskins Valley Campground - Food Storage - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0000e-004	2.0000e-003	3.3400e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.4110	0.4110	1.3000e-004	0.0000	0.4144
Total	2.0000e-004	2.0000e-003	3.3400e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.4110	0.4110	1.3000e-004	0.0000	0.4144

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3.17 5a - Haskins Valley Campground - Food Storage - 2027**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0872	0.0872	0.0000	0.0000	0.0873
Total	7.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0872	0.0872	0.0000	0.0000	0.0873

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0000e-004	2.0000e-003	3.3400e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.4110	0.4110	1.3000e-004	0.0000	0.4144
Total	2.0000e-004	2.0000e-003	3.3400e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.4110	0.4110	1.3000e-004	0.0000	0.4144

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3.17 5a - Haskins Valley Campground - Food Storage - 2027**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0872	0.0872	0.0000	0.0000	0.0873
Total	7.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0872	0.0872	0.0000	0.0000	0.0873

3.18 5b - Haskins Valley Campground - Improvements - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.1700e-003	0.0349	0.0431	1.4000e-004		1.2500e-003	1.2500e-003		1.1600e-003	1.1600e-003	0.0000	12.3012	12.3012	3.9500e-003	0.0000	12.3999
Total	5.1700e-003	0.0349	0.0431	1.4000e-004		1.2500e-003	1.2500e-003		1.1600e-003	1.1600e-003	0.0000	12.3012	12.3012	3.9500e-003	0.0000	12.3999

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3.18 5b - Haskins Valley Campground - Improvements - 2027**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.1000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0929	0.0929	0.0000	0.0000	0.0930
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.0000e-004	2.8600e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6102	0.6102	2.0000e-005	0.0000	0.6108
Total	5.2000e-004	5.1000e-004	2.9100e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.7031	0.7031	2.0000e-005	0.0000	0.7038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.1700e-003	0.0349	0.0431	1.4000e-004		1.2500e-003	1.2500e-003		1.1600e-003	1.1600e-003	0.0000	12.3012	12.3012	3.9500e-003	0.0000	12.3999
Total	5.1700e-003	0.0349	0.0431	1.4000e-004		1.2500e-003	1.2500e-003		1.1600e-003	1.1600e-003	0.0000	12.3012	12.3012	3.9500e-003	0.0000	12.3999

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3.18 5b - Haskins Valley Campground - Improvements - 2027**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.1000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0929	0.0929	0.0000	0.0000	0.0930
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.1000e-004	3.0000e-004	2.8600e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.8000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6102	0.6102	2.0000e-005	0.0000	0.6108
Total	5.2000e-004	5.1000e-004	2.9100e-003	1.0000e-005	7.9000e-004	1.0000e-005	8.0000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	0.7031	0.7031	2.0000e-005	0.0000	0.7038

3.19 5e - Haskins Valley Campground - Add Electrical - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4500e-003	0.0147	0.0245	3.0000e-005		6.0000e-004	6.0000e-004		5.5000e-004	5.5000e-004	0.0000	3.0142	3.0142	9.7000e-004	0.0000	3.0386
Total	1.4500e-003	0.0147	0.0245	3.0000e-005		6.0000e-004	6.0000e-004		5.5000e-004	5.5000e-004	0.0000	3.0142	3.0142	9.7000e-004	0.0000	3.0386

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3.19 5e - Haskins Valley Campground - Add Electrical - 2027**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.7000e-004	9.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1623	0.1623	0.0000	0.0000	0.1624
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.6000e-004	1.5000e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3196	0.3196	1.0000e-005	0.0000	0.3199
Total	2.7000e-004	5.3000e-004	1.5900e-003	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4819	0.4819	1.0000e-005	0.0000	0.4823

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.4500e-003	0.0147	0.0245	3.0000e-005		6.0000e-004	6.0000e-004		5.5000e-004	5.5000e-004	0.0000	3.0142	3.0142	9.7000e-004	0.0000	3.0386
Total	1.4500e-003	0.0147	0.0245	3.0000e-005		6.0000e-004	6.0000e-004		5.5000e-004	5.5000e-004	0.0000	3.0142	3.0142	9.7000e-004	0.0000	3.0386

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3.19 5e - Haskins Valley Campground - Add Electrical - 2027**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.7000e-004	9.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1623	0.1623	0.0000	0.0000	0.1624
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.6000e-004	1.5000e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3196	0.3196	1.0000e-005	0.0000	0.3199
Total	2.7000e-004	5.3000e-004	1.5900e-003	0.0000	4.5000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4819	0.4819	1.0000e-005	0.0000	0.4823

3.20 9a - Lower Bucks Day Use - Convert Campsites - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.8000e-004	0.0000	4.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8500e-003	0.0345	0.0452	1.3000e-004		1.3000e-003	1.3000e-003		1.2300e-003	1.2300e-003	0.0000	11.2734	11.2734	2.9200e-003	0.0000	11.3464
Total	4.8500e-003	0.0345	0.0452	1.3000e-004	4.8000e-004	1.3000e-003	1.7800e-003	5.0000e-005	1.2300e-003	1.2800e-003	0.0000	11.2734	11.2734	2.9200e-003	0.0000	11.3464

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3.20 9a - Lower Bucks Day Use - Convert Campsites - 2027**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.0300e-003	1.3600e-003	1.0000e-005	3.7000e-004	1.0000e-005	3.8000e-004	1.1000e-004	1.0000e-005	1.1000e-004	0.0000	1.3839	1.3839	5.0000e-005	0.0000	1.3852
Worker	1.8000e-004	1.1000e-004	1.0200e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2179	0.2179	1.0000e-005	0.0000	0.2181
Total	3.4000e-004	5.1400e-003	2.3800e-003	1.0000e-005	6.4000e-004	1.0000e-005	6.6000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	1.6018	1.6018	6.0000e-005	0.0000	1.6033

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.8000e-004	0.0000	4.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8500e-003	0.0345	0.0452	1.3000e-004		1.3000e-003	1.3000e-003		1.2300e-003	1.2300e-003	0.0000	11.2734	11.2734	2.9200e-003	0.0000	11.3463
Total	4.8500e-003	0.0345	0.0452	1.3000e-004	4.8000e-004	1.3000e-003	1.7800e-003	5.0000e-005	1.2300e-003	1.2800e-003	0.0000	11.2734	11.2734	2.9200e-003	0.0000	11.3463

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3.20 9a - Lower Bucks Day Use - Convert Campsites - 2027**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.6000e-004	5.0300e-003	1.3600e-003	1.0000e-005	3.7000e-004	1.0000e-005	3.8000e-004	1.1000e-004	1.0000e-005	1.1000e-004	0.0000	1.3839	1.3839	5.0000e-005	0.0000	1.3852
Worker	1.8000e-004	1.1000e-004	1.0200e-003	0.0000	2.7000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2179	0.2179	1.0000e-005	0.0000	0.2181
Total	3.4000e-004	5.1400e-003	2.3800e-003	1.0000e-005	6.4000e-004	1.0000e-005	6.6000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	1.6018	1.6018	6.0000e-005	0.0000	1.6033

3.21 5d - Haskins Valley Campground - Add Sites - 2028**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-004	0.0000	4.0000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8900e-003	0.0465	0.0574	1.9000e-004		1.6700e-003	1.6700e-003		1.5400e-003	1.5400e-003	0.0000	16.4016	16.4016	5.2600e-003	0.0000	16.5332
Total	6.8900e-003	0.0465	0.0574	1.9000e-004	4.0000e-004	1.6700e-003	2.0700e-003	4.0000e-005	1.5400e-003	1.5800e-003	0.0000	16.4016	16.4016	5.2600e-003	0.0000	16.5332

Bucks Creek Hydroelectric Project - Plumas County, Annual

3.21 5d - Haskins Valley Campground - Add Sites - 2028**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.4000e-004	9.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1541	0.1541	0.0000	0.0000	0.1542
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	3.6000e-004	3.4900e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.7882	0.7882	3.0000e-005	0.0000	0.7889
Total	6.4000e-004	7.0000e-004	3.5800e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9423	0.9423	3.0000e-005	0.0000	0.9432

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-004	0.0000	4.0000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8900e-003	0.0465	0.0574	1.9000e-004		1.6700e-003	1.6700e-003		1.5400e-003	1.5400e-003	0.0000	16.4016	16.4016	5.2600e-003	0.0000	16.5331
Total	6.8900e-003	0.0465	0.0574	1.9000e-004	4.0000e-004	1.6700e-003	2.0700e-003	4.0000e-005	1.5400e-003	1.5800e-003	0.0000	16.4016	16.4016	5.2600e-003	0.0000	16.5331

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3.21 5d - Haskins Valley Campground - Add Sites - 2028**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.4000e-004	9.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1541	0.1541	0.0000	0.0000	0.1542
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	3.6000e-004	3.4900e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.7882	0.7882	3.0000e-005	0.0000	0.7889
Total	6.4000e-004	7.0000e-004	3.5800e-003	1.0000e-005	1.0800e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9423	0.9423	3.0000e-005	0.0000	0.9432

3.22 9b - Lower Bucks Day Use - Reconstruct - 2028**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.7000e-004	0.0000	3.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7700e-003	0.0269	0.0352	1.0000e-004		1.0100e-003	1.0100e-003		9.6000e-004	9.6000e-004	0.0000	8.7682	8.7682	2.2700e-003	0.0000	8.8249
Total	3.7700e-003	0.0269	0.0352	1.0000e-004	3.7000e-004	1.0100e-003	1.3800e-003	4.0000e-005	9.6000e-004	1.0000e-003	0.0000	8.7682	8.7682	2.2700e-003	0.0000	8.8249

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3.22 9b - Lower Bucks Day Use - Reconstruct - 2028**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	3.8300e-003	1.0100e-003	1.0000e-005	2.9000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0713	1.0713	4.0000e-005	0.0000	1.0723
Worker	1.3000e-004	8.0000e-005	7.3000e-004	0.0000	2.1000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1642	0.1642	1.0000e-005	0.0000	0.1644
Total	2.5000e-004	3.9100e-003	1.7400e-003	1.0000e-005	5.0000e-004	1.0000e-005	5.1000e-004	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	1.2355	1.2355	5.0000e-005	0.0000	1.2366

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.7000e-004	0.0000	3.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7700e-003	0.0269	0.0352	1.0000e-004		1.0100e-003	1.0100e-003		9.6000e-004	9.6000e-004	0.0000	8.7682	8.7682	2.2700e-003	0.0000	8.8249
Total	3.7700e-003	0.0269	0.0352	1.0000e-004	3.7000e-004	1.0100e-003	1.3800e-003	4.0000e-005	9.6000e-004	1.0000e-003	0.0000	8.7682	8.7682	2.2700e-003	0.0000	8.8249

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3.22 9b - Lower Bucks Day Use - Reconstruct - 2028**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.2000e-004	3.8300e-003	1.0100e-003	1.0000e-005	2.9000e-004	1.0000e-005	2.9000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0713	1.0713	4.0000e-005	0.0000	1.0723
Worker	1.3000e-004	8.0000e-005	7.3000e-004	0.0000	2.1000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1642	0.1642	1.0000e-005	0.0000	0.1644
Total	2.5000e-004	3.9100e-003	1.7400e-003	1.0000e-005	5.0000e-004	1.0000e-005	5.1000e-004	1.4000e-004	1.0000e-005	1.5000e-004	0.0000	1.2355	1.2355	5.0000e-005	0.0000	1.2366

3.23 6a - Hutchins Group Campground - Reconstruct - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1138	0.9160	1.1311	3.0900e-003		0.0354	0.0354		0.0330	0.0330	0.0000	269.9221	269.9221	0.0788	0.0000	271.8915
Total	0.1138	0.9160	1.1311	3.0900e-003	3.8000e-004	0.0354	0.0358	4.0000e-005	0.0330	0.0330	0.0000	269.9221	269.9221	0.0788	0.0000	271.8915

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3.23 6a - Hutchins Group Campground - Reconstruct - 2029**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	9.5000e-004	2.5000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4426	0.4426	1.0000e-005	0.0000	0.4429
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8900e-003	5.0600e-003	0.0497	1.3000e-004	0.0160	1.1000e-004	0.0162	4.2700e-003	1.0000e-004	4.3700e-003	0.0000	11.9608	11.9608	3.9000e-004	0.0000	11.9706
Total	8.9200e-003	6.0100e-003	0.0499	1.3000e-004	0.0162	1.1000e-004	0.0163	4.3100e-003	1.0000e-004	4.4100e-003	0.0000	12.4034	12.4034	4.0000e-004	0.0000	12.4135

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1138	0.9160	1.1311	3.0900e-003		0.0354	0.0354		0.0330	0.0330	0.0000	269.9218	269.9218	0.0788	0.0000	271.8912
Total	0.1138	0.9160	1.1311	3.0900e-003	3.8000e-004	0.0354	0.0358	4.0000e-005	0.0330	0.0330	0.0000	269.9218	269.9218	0.0788	0.0000	271.8912

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3.23 6a - Hutchins Group Campground - Reconstruct - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	9.5000e-004	2.5000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4426	0.4426	1.0000e-005	0.0000	0.4429
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8900e-003	5.0600e-003	0.0497	1.3000e-004	0.0160	1.1000e-004	0.0162	4.2700e-003	1.0000e-004	4.3700e-003	0.0000	11.9608	11.9608	3.9000e-004	0.0000	11.9706
Total	8.9200e-003	6.0100e-003	0.0499	1.3000e-004	0.0162	1.1000e-004	0.0163	4.3100e-003	1.0000e-004	4.4100e-003	0.0000	12.4034	12.4034	4.0000e-004	0.0000	12.4135

3.24 6b - Hutchins Group Campground - Trail - 2029

Unmitigated Construction On-Site

[illegible]

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3.24 6b - Hutchins Group Campground - Trail - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.3000e-004	1.3200e-003	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.3188	0.3188	1.0000e-005	0.0000	0.3191
Total	2.4000e-004	1.3000e-004	1.3200e-003	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.3188	0.3188	1.0000e-005	0.0000	0.3191

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	:	:	:	:	3.7000e-004	0.0000	3.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					3.7000e-004	0.0000	3.7000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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3.24 6b - Hutchins Group Campground - Trail - 2029**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.3000e-004	1.3200e-003	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.3188	0.3188	1.0000e-005	0.0000	0.3191
Total	2.4000e-004	1.3000e-004	1.3200e-003	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.3188	0.3188	1.0000e-005	0.0000	0.3191

3.25 2 - Bucks Lake Inlet Parking signage - 2030**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.0000e-004	2.2200e-003	4.9400e-003	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.4453	1.4453	5.0000e-005	0.0000	1.4465
Total	6.0000e-004	2.2200e-003	4.9400e-003	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.4453	1.4453	5.0000e-005	0.0000	1.4465

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3.25 2 - Bucks Lake Inlet Parking signage - 2030**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.1000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0509	0.0509	0.0000	0.0000	0.0509
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0443	0.0443	0.0000	0.0000	0.0444
Total	3.0000e-005	1.3000e-004	2.0000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0952	0.0952	0.0000	0.0000	0.0953

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.0000e-004	2.2200e-003	4.9400e-003	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.4453	1.4453	5.0000e-005	0.0000	1.4465
Total	6.0000e-004	2.2200e-003	4.9400e-003	1.0000e-005		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	1.4453	1.4453	5.0000e-005	0.0000	1.4465

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3.25 2 - Bucks Lake Inlet Parking signage - 2030**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	1.1000e-004	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0509	0.0509	0.0000	0.0000	0.0509
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0443	0.0443	0.0000	0.0000	0.0444
Total	3.0000e-005	1.3000e-004	2.0000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0952	0.0952	0.0000	0.0000	0.0953

3.26 13a - West End Cove Day Use - Trail - 2030**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.6000e-004	0.0000	3.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0430	0.0934	2.2000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	20.7929	20.7929	7.4000e-004	0.0000	20.8113
Total	9.1600e-003	0.0430	0.0934	2.2000e-004	3.6000e-004	1.0100e-003	1.3700e-003	4.0000e-005	1.0100e-003	1.0500e-003	0.0000	20.7929	20.7929	7.4000e-004	0.0000	20.8113

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3.26 13a - West End Cove Day Use - Trail - 2030**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4860	0.4860	1.0000e-005	0.0000	0.4862
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	6.7000e-004	6.7800e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.7286	1.7286	5.0000e-005	0.0000	1.7299
Total	1.2400e-003	1.6800e-003	7.0500e-003	3.0000e-005	2.5400e-003	2.0000e-005	2.5600e-003	6.7000e-004	1.0000e-005	6.9000e-004	0.0000	2.2145	2.2145	6.0000e-005	0.0000	2.2161

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.6000e-004	0.0000	3.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1600e-003	0.0430	0.0934	2.2000e-004		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	20.7929	20.7929	7.4000e-004	0.0000	20.8113
Total	9.1600e-003	0.0430	0.0934	2.2000e-004	3.6000e-004	1.0100e-003	1.3700e-003	4.0000e-005	1.0100e-003	1.0500e-003	0.0000	20.7929	20.7929	7.4000e-004	0.0000	20.8113

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3.26 13a - West End Cove Day Use - Trail - 2030**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.0100e-003	2.7000e-004	1.0000e-005	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4860	0.4860	1.0000e-005	0.0000	0.4862
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2100e-003	6.7000e-004	6.7800e-003	2.0000e-005	2.3800e-003	2.0000e-005	2.4000e-003	6.3000e-004	1.0000e-005	6.5000e-004	0.0000	1.7286	1.7286	5.0000e-005	0.0000	1.7299
Total	1.2400e-003	1.6800e-003	7.0500e-003	3.0000e-005	2.5400e-003	2.0000e-005	2.5600e-003	6.7000e-004	1.0000e-005	6.9000e-004	0.0000	2.2145	2.2145	6.0000e-005	0.0000	2.2161

3.27 14a - Bucks Boat-In Campground - Demo - 2031**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9000e-004	5.4100e-003	0.0109	2.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6956	1.6956	5.0000e-005	0.0000	1.6968
Total	5.9000e-004	5.4100e-003	0.0109	2.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6956	1.6956	5.0000e-005	0.0000	1.6968

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3.27 14a - Bucks Boat-In Campground - Demo - 2031**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	4.0000e-005	3.8000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1037	0.1037	0.0000	0.0000	0.1038
Total	7.0000e-005	4.0000e-005	3.8000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1037	0.1037	0.0000	0.0000	0.1038

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.9000e-004	5.4100e-003	0.0109	2.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6956	1.6956	5.0000e-005	0.0000	1.6968
Total	5.9000e-004	5.4100e-003	0.0109	2.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.6956	1.6956	5.0000e-005	0.0000	1.6968

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3.27 14a - Bucks Boat-In Campground - Demo - 2031**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	4.0000e-005	3.8000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1037	0.1037	0.0000	0.0000	0.1038
Total	7.0000e-005	4.0000e-005	3.8000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1037	0.1037	0.0000	0.0000	0.1038

3.28 14b - Bucks Boat-In Campground - Construct Sites - 2031**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9000e-004	0.0000	3.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4200e-003	0.0257	0.0554	1.0000e-004		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	8.2061	8.2061	2.8000e-004	0.0000	8.2130
Total	3.4200e-003	0.0257	0.0554	1.0000e-004	3.9000e-004	4.8000e-004	8.7000e-004	4.0000e-005	4.8000e-004	5.2000e-004	0.0000	8.2061	8.2061	2.8000e-004	0.0000	8.2130

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3.28 14b - Bucks Boat-In Campground - Construct Sites - 2031**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.0000e-004	8.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1475	0.1475	0.0000	0.0000	0.1476
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	4.4000e-004	4.5700e-003	1.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.2447	1.2447	3.0000e-005	0.0000	1.2456
Total	8.2000e-004	7.4000e-004	4.6500e-003	1.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3922	1.3922	3.0000e-005	0.0000	1.3931

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9000e-004	0.0000	3.9000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4200e-003	0.0257	0.0554	1.0000e-004		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	8.2061	8.2061	2.8000e-004	0.0000	8.2130
Total	3.4200e-003	0.0257	0.0554	1.0000e-004	3.9000e-004	4.8000e-004	8.7000e-004	4.0000e-005	4.8000e-004	5.2000e-004	0.0000	8.2061	8.2061	2.8000e-004	0.0000	8.2130

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3.28 14b - Bucks Boat-In Campground - Construct Sites - 2031**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.0000e-004	8.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1475	0.1475	0.0000	0.0000	0.1476
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	4.4000e-004	4.5700e-003	1.0000e-005	1.7600e-003	1.0000e-005	1.7700e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.2447	1.2447	3.0000e-005	0.0000	1.2456
Total	8.2000e-004	7.4000e-004	4.6500e-003	1.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.3922	1.3922	3.0000e-005	0.0000	1.3931

3.29 14c - Bucks Boat-In Campground - Fuel Treatment - 2031**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	6.0000e-005	6.3000e-004	0.0000	2.4000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1729	0.1729	0.0000	0.0000	0.1730
Total	1.1000e-004	6.0000e-005	6.3000e-004	0.0000	2.4000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1729	0.1729	0.0000	0.0000	0.1730

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3.29 14c - Bucks Boat-In Campground - Fuel Treatment - 2031**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	6.0000e-005	6.3000e-004	0.0000	2.4000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1729	0.1729	0.0000	0.0000	0.1730
Total	1.1000e-004	6.0000e-005	6.3000e-004	0.0000	2.4000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1729	0.1729	0.0000	0.0000	0.1730

3.30 7a - Indian Rock Day Use - Reconstruct - 2032**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-004	0.0000	4.0000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0327	0.1300	0.3075	7.9000e-004		3.9700e-003	3.9700e-003		3.9700e-003	3.9700e-003	0.0000	73.3133	73.3133	2.6300e-003	0.0000	73.3792
Total	0.0327	0.1300	0.3075	7.9000e-004	4.0000e-004	3.9700e-003	4.3700e-003	4.0000e-005	3.9700e-003	4.0100e-003	0.0000	73.3133	73.3133	2.6300e-003	0.0000	73.3792

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3.30 7a - Indian Rock Day Use - Reconstruct - 2032**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.1900e-003	3.4000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6063	0.6063	1.0000e-005	0.0000	0.6066
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8300e-003	9.7000e-004	0.0105	3.0000e-005	4.4000e-003	2.0000e-005	4.4200e-003	1.1700e-003	2.0000e-005	1.1900e-003	0.0000	3.0414	3.0414	8.0000e-005	0.0000	3.0433
Total	1.8700e-003	2.1600e-003	0.0109	4.0000e-005	4.5900e-003	2.0000e-005	4.6100e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.6476	3.6476	9.0000e-005	0.0000	3.6499

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-004	0.0000	4.0000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0327	0.1300	0.3075	7.9000e-004		3.9700e-003	3.9700e-003		3.9700e-003	3.9700e-003	0.0000	73.3132	73.3132	2.6300e-003	0.0000	73.3791
Total	0.0327	0.1300	0.3075	7.9000e-004	4.0000e-004	3.9700e-003	4.3700e-003	4.0000e-005	3.9700e-003	4.0100e-003	0.0000	73.3132	73.3132	2.6300e-003	0.0000	73.3791

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3.30 7a - Indian Rock Day Use - Reconstruct - 2032

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.1900e-003	3.4000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6063	0.6063	1.0000e-005	0.0000	0.6066
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8300e-003	9.7000e-004	0.0105	3.0000e-005	4.4000e-003	2.0000e-005	4.4200e-003	1.1700e-003	2.0000e-005	1.1900e-003	0.0000	3.0414	3.0414	8.0000e-005	0.0000	3.0433
Total	1.8700e-003	2.1600e-003	0.0109	4.0000e-005	4.5900e-003	2.0000e-005	4.6100e-003	1.2200e-003	2.0000e-005	1.2400e-003	0.0000	3.6476	3.6476	9.0000e-005	0.0000	3.6499

3.31 7b - Indian Rock Day Use - Trails - 2032

Unmitigated Construction On-Site

[illegible]

Bucks Creek Hydroelectric Project - Plumas County, Annual

3.31 7b - Indian Rock Day Use - Trails - 2032

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.2000e-004	1.3100e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3802	0.3802	1.0000e-005	0.0000	0.3804
Total	2.3000e-004	1.2000e-004	1.3100e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3802	0.3802	1.0000e-005	0.0000	0.3804

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	:	:	:	:	4.8000e-004	0.0000	4.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total					4.8000e-004	0.0000	4.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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3.31 7b - Indian Rock Day Use - Trails - 2032**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.2000e-004	1.3100e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3802	0.3802	1.0000e-005	0.0000	0.3804
Total	2.3000e-004	1.2000e-004	1.3100e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.3802	0.3802	1.0000e-005	0.0000	0.3804

3.32 12a - Sundew Campground - Reconstruct - 2034**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0820	0.2775	0.6091	1.9300e-003		9.0700e-003	9.0700e-003		9.0700e-003	9.0700e-003	0.0000	183.7422	183.7422	6.5800e-003	0.0000	183.9066
Total	0.0820	0.2775	0.6091	1.9300e-003	3.8000e-004	9.0700e-003	9.4500e-003	4.0000e-005	9.0700e-003	9.1100e-003	0.0000	183.7422	183.7422	6.5800e-003	0.0000	183.9066

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3.32 12a - Sundew Campground - Reconstruct - 2034**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	8.2000e-004	2.5000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4357	0.4357	1.0000e-005	0.0000	0.4359
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4200e-003	1.7500e-003	0.0201	7.0000e-005	9.9000e-003	5.0000e-005	9.9400e-003	2.6300e-003	4.0000e-005	2.6800e-003	0.0000	6.5790	6.5790	1.3000e-004	0.0000	6.5823
Total	3.4500e-003	2.5700e-003	0.0203	7.0000e-005	0.0100	5.0000e-005	0.0101	2.6700e-003	4.0000e-005	2.7200e-003	0.0000	7.0147	7.0147	1.4000e-004	0.0000	7.0183

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0820	0.2775	0.6091	1.9300e-003		9.0700e-003	9.0700e-003		9.0700e-003	9.0700e-003	0.0000	183.7420	183.7420	6.5800e-003	0.0000	183.9064
Total	0.0820	0.2775	0.6091	1.9300e-003	3.8000e-004	9.0700e-003	9.4500e-003	4.0000e-005	9.0700e-003	9.1100e-003	0.0000	183.7420	183.7420	6.5800e-003	0.0000	183.9064

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3.32 12a - Sundew Campground - Reconstruct - 2034**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	8.2000e-004	2.5000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4357	0.4357	1.0000e-005	0.0000	0.4359
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.4200e-003	1.7500e-003	0.0201	7.0000e-005	9.9000e-003	5.0000e-005	9.9400e-003	2.6300e-003	4.0000e-005	2.6800e-003	0.0000	6.5790	6.5790	1.3000e-004	0.0000	6.5823
Total	3.4500e-003	2.5700e-003	0.0203	7.0000e-005	0.0100	5.0000e-005	0.0101	2.6700e-003	4.0000e-005	2.7200e-003	0.0000	7.0147	7.0147	1.4000e-004	0.0000	7.0183

3.33 11a - Sandy Point Day Use - Trail and Parking - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0508	0.1511	2.7000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	23.1947	23.1947	9.3000e-004	0.0000	23.2179
Total	0.0114	0.0508	0.1511	2.7000e-004	1.0000e-005	1.8700e-003	1.8800e-003	0.0000	1.8700e-003	1.8700e-003	0.0000	23.1947	23.1947	9.3000e-004	0.0000	23.2179

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3.33 11a - Sandy Point Day Use - Trail and Parking - 2035**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7000e-004	7.5900e-003	2.3500e-003	4.0000e-005	1.3100e-003	2.0000e-005	1.3300e-003	3.5000e-004	2.0000e-005	3.7000e-004	0.0000	4.1278	4.1278	8.0000e-005	0.0000	4.1299
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8200e-003	1.4400e-003	0.0167	6.0000e-005	8.9100e-003	4.0000e-005	8.9500e-003	2.3700e-003	4.0000e-005	2.4100e-003	0.0000	5.8237	5.8237	1.1000e-004	0.0000	5.8264
Total	3.0900e-003	9.0300e-003	0.0191	1.0000e-004	0.0102	6.0000e-005	0.0103	2.7200e-003	6.0000e-005	2.7800e-003	0.0000	9.9515	9.9515	1.9000e-004	0.0000	9.9563

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.0508	0.1511	2.7000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003	0.0000	23.1947	23.1947	9.3000e-004	0.0000	23.2178
Total	0.0114	0.0508	0.1511	2.7000e-004	1.0000e-005	1.8700e-003	1.8800e-003	0.0000	1.8700e-003	1.8700e-003	0.0000	23.1947	23.1947	9.3000e-004	0.0000	23.2178

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3.33 11a - Sandy Point Day Use - Trail and Parking - 2035**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7000e-004	7.5900e-003	2.3500e-003	4.0000e-005	1.3100e-003	2.0000e-005	1.3300e-003	3.5000e-004	2.0000e-005	3.7000e-004	0.0000	4.1278	4.1278	8.0000e-005	0.0000	4.1299
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8200e-003	1.4400e-003	0.0167	6.0000e-005	8.9100e-003	4.0000e-005	8.9500e-003	2.3700e-003	4.0000e-005	2.4100e-003	0.0000	5.8237	5.8237	1.1000e-004	0.0000	5.8264
Total	3.0900e-003	9.0300e-003	0.0191	1.0000e-004	0.0102	6.0000e-005	0.0103	2.7200e-003	6.0000e-005	2.7800e-003	0.0000	9.9515	9.9515	1.9000e-004	0.0000	9.9563

3.34 11b - Sandy Point Day Use - Boat Launch - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0344	0.1057	0.2713	8.3000e-004		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	78.1784	78.1784	2.7200e-003	0.0000	78.2464
Total	0.0344	0.1057	0.2713	8.3000e-004	0.0000	3.1500e-003	3.1500e-003	0.0000	3.1500e-003	3.1500e-003	0.0000	78.1784	78.1784	2.7200e-003	0.0000	78.2464

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3.34 11b - Sandy Point Day Use - Boat Launch - 2035**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.3600e-003	4.2000e-004	1.0000e-005	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.7391	0.7391	2.0000e-005	0.0000	0.7395
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	6.1000e-004	7.1100e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8000e-003	1.0100e-003	2.0000e-005	1.0200e-003	0.0000	2.4765	2.4765	5.0000e-005	0.0000	2.4776
Total	1.2500e-003	1.9700e-003	7.5300e-003	4.0000e-005	4.0200e-003	2.0000e-005	4.0300e-003	1.0700e-003	2.0000e-005	1.0800e-003	0.0000	3.2156	3.2156	7.0000e-005	0.0000	3.2171

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0344	0.1057	0.2713	8.3000e-004		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	78.1783	78.1783	2.7200e-003	0.0000	78.2463
Total	0.0344	0.1057	0.2713	8.3000e-004	0.0000	3.1500e-003	3.1500e-003	0.0000	3.1500e-003	3.1500e-003	0.0000	78.1783	78.1783	2.7200e-003	0.0000	78.2463

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3.34 11b - Sandy Point Day Use - Boat Launch - 2035**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-005	1.3600e-003	4.2000e-004	1.0000e-005	2.3000e-004	0.0000	2.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.7391	0.7391	2.0000e-005	0.0000	0.7395
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-003	6.1000e-004	7.1100e-003	3.0000e-005	3.7900e-003	2.0000e-005	3.8000e-003	1.0100e-003	2.0000e-005	1.0200e-003	0.0000	2.4765	2.4765	5.0000e-005	0.0000	2.4776
Total	1.2500e-003	1.9700e-003	7.5300e-003	4.0000e-005	4.0200e-003	2.0000e-005	4.0300e-003	1.0700e-003	2.0000e-005	1.0800e-003	0.0000	3.2156	3.2156	7.0000e-005	0.0000	3.2171

3.35 11c - Sandy Point Day Use - Reconstruct - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1021	0.3305	0.8968	2.6500e-003		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	250.5179	250.5179	8.1300e-003	0.0000	250.7211
Total	0.1021	0.3305	0.8968	2.6500e-003	3.8000e-004	8.5000e-003	8.8800e-003	4.0000e-005	8.5000e-003	8.5400e-003	0.0000	250.5179	250.5179	8.1300e-003	0.0000	250.7211

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3.35 11c - Sandy Point Day Use - Reconstruct - 2035**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	1.5900e-003	4.9000e-004	1.0000e-005	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.8669	0.8669	2.0000e-005	0.0000	0.8673
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-003	1.9900e-003	0.0232	9.0000e-005	0.0123	5.0000e-005	0.0124	3.2800e-003	5.0000e-005	3.3300e-003	0.0000	8.0686	8.0686	1.5000e-004	0.0000	8.0723
Total	3.9600e-003	3.5800e-003	0.0237	1.0000e-004	0.0126	5.0000e-005	0.0127	3.3500e-003	5.0000e-005	3.4100e-003	0.0000	8.9354	8.9354	1.7000e-004	0.0000	8.9396

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1021	0.3305	0.8968	2.6500e-003		8.5000e-003	8.5000e-003		8.5000e-003	8.5000e-003	0.0000	250.5176	250.5176	8.1300e-003	0.0000	250.7208
Total	0.1021	0.3305	0.8968	2.6500e-003	3.8000e-004	8.5000e-003	8.8800e-003	4.0000e-005	8.5000e-003	8.5400e-003	0.0000	250.5176	250.5176	8.1300e-003	0.0000	250.7208

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3.35 11c - Sandy Point Day Use - Reconstruct - 2035**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	1.5900e-003	4.9000e-004	1.0000e-005	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.8669	0.8669	2.0000e-005	0.0000	0.8673
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-003	1.9900e-003	0.0232	9.0000e-005	0.0123	5.0000e-005	0.0124	3.2800e-003	5.0000e-005	3.3300e-003	0.0000	8.0686	8.0686	1.5000e-004	0.0000	8.0723
Total	3.9600e-003	3.5800e-003	0.0237	1.0000e-004	0.0126	5.0000e-005	0.0127	3.3500e-003	5.0000e-005	3.4100e-003	0.0000	8.9354	8.9354	1.7000e-004	0.0000	8.9396

3.36 3d - Grizzly Forebay Campground - Reconstruct - 2036**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0934	0.2361	5.1000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	43.6545	43.6545	1.4600e-003	0.0000	43.6909
Total	0.0180	0.0934	0.2361	5.1000e-004	3.8000e-004	1.9700e-003	2.3500e-003	4.0000e-005	1.9700e-003	2.0100e-003	0.0000	43.6545	43.6545	1.4600e-003	0.0000	43.6909

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3.36 3d - Grizzly Forebay Campground - Reconstruct - 2036**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.3000e-004	1.6000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.2861	0.2861	1.0000e-005	0.0000	0.2862
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	6.3000e-004	7.3400e-003	3.0000e-005	3.9100e-003	2.0000e-005	3.9300e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	2.5564	2.5564	5.0000e-005	0.0000	2.5576
Total	1.2600e-003	1.1600e-003	7.5000e-003	3.0000e-005	4.0000e-003	2.0000e-005	4.0200e-003	1.0600e-003	2.0000e-005	1.0900e-003	0.0000	2.8425	2.8425	6.0000e-005	0.0000	2.8438

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.0934	0.2361	5.1000e-004		1.9700e-003	1.9700e-003		1.9700e-003	1.9700e-003	0.0000	43.6544	43.6544	1.4600e-003	0.0000	43.6909
Total	0.0180	0.0934	0.2361	5.1000e-004	3.8000e-004	1.9700e-003	2.3500e-003	4.0000e-005	1.9700e-003	2.0100e-003	0.0000	43.6544	43.6544	1.4600e-003	0.0000	43.6909

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3.36 3d - Grizzly Forebay Campground - Reconstruct - 2036**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.3000e-004	1.6000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.2861	0.2861	1.0000e-005	0.0000	0.2862
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2400e-003	6.3000e-004	7.3400e-003	3.0000e-005	3.9100e-003	2.0000e-005	3.9300e-003	1.0400e-003	2.0000e-005	1.0600e-003	0.0000	2.5564	2.5564	5.0000e-005	0.0000	2.5576
Total	1.2600e-003	1.1600e-003	7.5000e-003	3.0000e-005	4.0000e-003	2.0000e-005	4.0200e-003	1.0600e-003	2.0000e-005	1.0900e-003	0.0000	2.8425	2.8425	6.0000e-005	0.0000	2.8438

3.37 4d - Grizzly Forebay Rec Area - Reconstruct - 2037**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.8000e-004	0.0000	4.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4500e-003	7.8700e-003	0.0196	6.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	5.9363	5.9363	2.0000e-004	0.0000	5.9412
Total	2.4500e-003	7.8700e-003	0.0196	6.0000e-005	4.8000e-004	1.9000e-004	6.7000e-004	5.0000e-005	1.9000e-004	2.4000e-004	0.0000	5.9363	5.9363	2.0000e-004	0.0000	5.9412

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3.37 4d - Grizzly Forebay Rec Area - Reconstruct - 2037**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.0000e-004	1.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2704	0.2704	1.0000e-005	0.0000	0.2705
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.4000e-004	1.6500e-003	1.0000e-005	8.8000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.5752	0.5752	1.0000e-005	0.0000	0.5755
Total	3.0000e-004	6.4000e-004	1.8000e-003	1.0000e-005	9.5000e-004	0.0000	9.5000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.8455	0.8455	2.0000e-005	0.0000	0.8459

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.8000e-004	0.0000	4.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4500e-003	7.8700e-003	0.0196	6.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	5.9363	5.9363	2.0000e-004	0.0000	5.9412
Total	2.4500e-003	7.8700e-003	0.0196	6.0000e-005	4.8000e-004	1.9000e-004	6.7000e-004	5.0000e-005	1.9000e-004	2.4000e-004	0.0000	5.9363	5.9363	2.0000e-004	0.0000	5.9412

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3.37 4d - Grizzly Forebay Rec Area - Reconstruct - 2037**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.0000e-004	1.5000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2704	0.2704	1.0000e-005	0.0000	0.2705
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.4000e-004	1.6500e-003	1.0000e-005	8.8000e-004	0.0000	8.8000e-004	2.3000e-004	0.0000	2.4000e-004	0.0000	0.5752	0.5752	1.0000e-005	0.0000	0.5755
Total	3.0000e-004	6.4000e-004	1.8000e-003	1.0000e-005	9.5000e-004	0.0000	9.5000e-004	2.5000e-004	0.0000	2.6000e-004	0.0000	0.8455	0.8455	2.0000e-005	0.0000	0.8459

3.38 13b - West End Cove Day Use - Reconstruct - 2039**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-004	0.0000	4.0000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0212	0.0687	0.1865	5.5000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	52.0879	52.0879	1.6900e-003	0.0000	52.1301
Total	0.0212	0.0687	0.1865	5.5000e-004	4.0000e-004	1.7700e-003	2.1700e-003	4.0000e-005	1.7700e-003	1.8100e-003	0.0000	52.0879	52.0879	1.6900e-003	0.0000	52.1301

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3.38 13b - West End Cove Day Use - Reconstruct - 2039**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.5000e-004	1.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3004	0.3004	1.0000e-005	0.0000	0.3006
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	4.1000e-004	4.8200e-003	2.0000e-005	2.5700e-003	1.0000e-005	2.5800e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.6776	1.6776	3.0000e-005	0.0000	1.6784
Total	8.3000e-004	9.6000e-004	4.9900e-003	2.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	7.0000e-004	1.0000e-005	7.2000e-004	0.0000	1.9780	1.9780	4.0000e-005	0.0000	1.9789

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-004	0.0000	4.0000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0212	0.0687	0.1865	5.5000e-004		1.7700e-003	1.7700e-003		1.7700e-003	1.7700e-003	0.0000	52.0878	52.0878	1.6900e-003	0.0000	52.1301
Total	0.0212	0.0687	0.1865	5.5000e-004	4.0000e-004	1.7700e-003	2.1700e-003	4.0000e-005	1.7700e-003	1.8100e-003	0.0000	52.0878	52.0878	1.6900e-003	0.0000	52.1301

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3.38 13b - West End Cove Day Use - Reconstruct - 2039**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.5000e-004	1.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3004	0.3004	1.0000e-005	0.0000	0.3006
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1000e-004	4.1000e-004	4.8200e-003	2.0000e-005	2.5700e-003	1.0000e-005	2.5800e-003	6.8000e-004	1.0000e-005	6.9000e-004	0.0000	1.6776	1.6776	3.0000e-005	0.0000	1.6784
Total	8.3000e-004	9.6000e-004	4.9900e-003	2.0000e-005	2.6600e-003	1.0000e-005	2.6700e-003	7.0000e-004	1.0000e-005	7.2000e-004	0.0000	1.9780	1.9780	4.0000e-005	0.0000	1.9789

3.39 5c - Haskins Valley Campground - Reconstruct - 2040**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0940	0.3798	1.0744	2.8800e-003		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003	0.0000	261.0157	261.0157	7.4500e-003	0.0000	261.2019
Total	0.0940	0.3798	1.0744	2.8800e-003	3.8000e-004	6.8500e-003	7.2300e-003	4.0000e-005	6.8500e-003	6.8900e-003	0.0000	261.0157	261.0157	7.4500e-003	0.0000	261.2019

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3.39 5c - Haskins Valley Campground - Reconstruct - 2040**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	3.2100e-003	1.0400e-003	2.0000e-005	6.0000e-004	1.0000e-005	6.0000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	1.8468	1.8468	4.0000e-005	0.0000	1.8477
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8400e-003	2.0400e-003	0.0258	1.2000e-004	0.0176	6.0000e-005	0.0177	4.6800e-003	5.0000e-005	4.7400e-003	0.0000	10.8832	10.8832	1.4000e-004	0.0000	10.8866
Total	3.9600e-003	5.2500e-003	0.0269	1.4000e-004	0.0182	7.0000e-005	0.0183	4.8400e-003	6.0000e-005	4.9100e-003	0.0000	12.7300	12.7300	1.8000e-004	0.0000	12.7343

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0940	0.3798	1.0744	2.8800e-003		6.8500e-003	6.8500e-003		6.8500e-003	6.8500e-003	0.0000	261.0154	261.0154	7.4500e-003	0.0000	261.2016
Total	0.0940	0.3798	1.0744	2.8800e-003	3.8000e-004	6.8500e-003	7.2300e-003	4.0000e-005	6.8500e-003	6.8900e-003	0.0000	261.0154	261.0154	7.4500e-003	0.0000	261.2016

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3.39 5c - Haskins Valley Campground - Reconstruct - 2040**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.2000e-004	3.2100e-003	1.0400e-003	2.0000e-005	6.0000e-004	1.0000e-005	6.0000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	1.8468	1.8468	4.0000e-005	0.0000	1.8477
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8400e-003	2.0400e-003	0.0258	1.2000e-004	0.0176	6.0000e-005	0.0177	4.6800e-003	5.0000e-005	4.7400e-003	0.0000	10.8832	10.8832	1.4000e-004	0.0000	10.8866
Total	3.9600e-003	5.2500e-003	0.0269	1.4000e-004	0.0182	7.0000e-005	0.0183	4.8400e-003	6.0000e-005	4.9100e-003	0.0000	12.7300	12.7300	1.8000e-004	0.0000	12.7343

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Recreational	0.451390	0.047356	0.228647	0.160524	0.049085	0.008369	0.015884	0.026778	0.001925	0.001827	0.005819	0.000749	0.001649

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Bucks Creek Hydroelectric Project - Plumas County, Annual

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

[illegible]

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6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

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7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Bucks Creek Hydroelectric Project - Plumas County, Annual

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Bucks Creek Hydroelectric Project - Plumas County, Summer

Bucks Creek Hydroelectric Project

Plumas County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	19.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	73
Climate Zone	1			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

On-road Fugitive Dust -

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Bucks Creek Hydroelectric Project - Plumas County, Summer

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Bucks Creek Hydroelectric Project - Plumas County, Summer

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Bucks Creek Hydroelectric Project - Plumas County, Summer

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Bucks Creek Hydroelectric Project - Plumas County, Summer

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Bucks Creek Hydroelectric Project - Plumas County, Summer

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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Bucks Creek Hydroelectric Project - Plumas County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.3445	7.6200	13.2696	0.0212	0.7074	0.3753	1.0827	0.1711	0.3537	0.5248	0.0000	2,064.128 6	2,064.128 6	0.3726	0.0000	2,073.443 3
2022	0.4617	4.0953	4.7770	0.0137	0.0855	0.1642	0.2497	0.0227	0.1510	0.1737	0.0000	1,330.962 9	1,330.962 9	0.3990	0.0000	1,340.936 7
2023	3.0183	22.6879	24.8719	0.0723	0.3796	0.9039	1.2835	0.1008	0.8420	0.9428	0.0000	7,014.132 9	7,014.132 9	1.9286	0.0000	7,062.348 3
2024	0.4818	4.0119	5.3291	0.0160	0.1740	0.1384	0.3124	0.0463	0.1274	0.1736	0.0000	1,568.625 5	1,568.625 5	0.4211	0.0000	1,579.152 5
2025	2.3566	16.2427	21.1057	0.0602	0.5905	0.6183	1.2089	0.1380	0.5716	0.7096	0.0000	5,823.2511	5,823.2511	1.6965	0.0000	5,865.664 0
2026	4.4960	34.2952	40.8047	0.1053	0.5790	1.3359	1.9149	0.1517	1.2375	1.3891	0.0000	10,193.71 24	10,193.71 24	2.9378	0.0000	10,267.15 65
2027	2.9112	20.7694	28.0977	0.0766	0.6012	0.7352	1.3365	0.1447	0.6849	0.8296	0.0000	7,431.182 5	7,431.182 5	2.0020	0.0000	7,481.233 3
2028	2.4032	16.6277	20.7342	0.0655	0.5078	0.5713	1.0792	0.1095	0.5341	0.6436	0.0000	6,353.006 6	6,353.006 6	1.7014	0.0000	6,395.542 5
2029	2.5011	18.2728	23.8480	0.0651	0.5763	0.7038	1.2801	0.1350	0.6559	0.7909	0.0000	6,287.062 9	6,287.062 9	1.7326	0.0000	6,330.378 5
2030	2.6679	10.6099	23.7572	0.0648	0.5756	0.2607	0.8363	0.1448	0.2604	0.4053	0.0000	6,801.849 0	6,801.849 0	0.2306	0.0000	6,807.615 4
2031	0.7934	5.1318	11.5825	0.0218	0.4374	0.1000	0.5374	0.1084	0.0998	0.2082	0.0000	2,079.045 5	2,079.045 5	0.0647	0.0000	2,080.663 7
2032	2.9373	11.0195	26.8999	0.0704	0.6662	0.3336	0.9998	0.1548	0.3333	0.4881	0.0000	7,187.784 6	7,187.784 6	0.2532	0.0000	7,194.1143
2034	2.1095	6.9064	15.5796	0.0496	0.2685	0.2251	0.4936	0.0697	0.2250	0.2947	0.0000	5,203.981 3	5,203.981 3	0.1832	0.0000	5,208.561 9
2035	4.7592	15.0104	40.5232	0.1198	0.8037	0.4219	1.2257	0.2120	0.4217	0.6336	0.0000	12,388.86 83	12,388.86 83	0.4100	0.0000	12,399.118 3
2036	0.9640	4.7205	12.2079	0.0272	0.2281	0.0993	0.3274	0.0575	0.0992	0.1567	0.0000	2,572.213 5	2,572.213 5	0.0835	0.0000	2,574.302 2
2037	0.6109	1.8833	4.7782	0.0162	0.3271	0.0437	0.3708	0.0701	0.0436	0.1137	0.0000	1,670.948 0	1,670.948 0	0.0519	0.0000	1,672.246 1
2039	2.1014	6.6280	18.2692	0.0547	0.3025	0.1696	0.4721	0.0743	0.1695	0.2438	0.0000	5,687.873 4	5,687.873 4	0.1816	0.0000	5,692.412 4
2040	2.0419	8.0128	22.9921	0.0630	0.4041	0.1440	0.5481	0.1059	0.1439	0.2498	0.0000	6,303.495 2	6,303.495 2	0.1753	0.0000	6,307.878 6

Bucks Creek Hydroelectric Project - Plumas County, Summer

Maximum	4.7592	34.2952	40.8047	0.1198	0.8037	1.3359	1.9149	0.2120	1.2375	1.3891	0.0000	12,388.86 83	12,388.86 83	2.9378	0.0000	12,399.11 83

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.3445	7.6200	13.2696	0.0212	0.7074	0.3753	1.0827	0.1711	0.3537	0.5248	0.0000	2,064.128 6	2,064.128 6	0.3726	0.0000	2,073.443 3
2022	0.4617	4.0953	4.7770	0.0137	0.0855	0.1642	0.2497	0.0227	0.1510	0.1737	0.0000	1,330.962 9	1,330.962 9	0.3990	0.0000	1,340.936 7
2023	3.0183	22.6879	24.8719	0.0723	0.3796	0.9039	1.2835	0.1008	0.8420	0.9428	0.0000	7,014.132 9	7,014.132 9	1.9286	0.0000	7,062.348 3
2024	0.4818	4.0119	5.3291	0.0160	0.1740	0.1384	0.3124	0.0463	0.1274	0.1736	0.0000	1,568.625 5	1,568.625 5	0.4211	0.0000	1,579.152 5
2025	2.3566	16.2427	21.1057	0.0602	0.5905	0.6183	1.2089	0.1380	0.5716	0.7096	0.0000	5,823.2511	5,823.2511	1.6965	0.0000	5,865.664 0
2026	4.4960	34.2952	40.8047	0.1053	0.5790	1.3359	1.9149	0.1517	1.2375	1.3891	0.0000	10,193.71 24	10,193.71 24	2.9378	0.0000	10,267.15 65
2027	2.9112	20.7694	28.0977	0.0766	0.6012	0.7352	1.3365	0.1447	0.6849	0.8296	0.0000	7,431.182 5	7,431.182 5	2.0020	0.0000	7,481.233 3
2028	2.4032	16.6277	20.7342	0.0655	0.5078	0.5713	1.0792	0.1095	0.5341	0.6436	0.0000	6,353.006 6	6,353.006 6	1.7014	0.0000	6,395.542 5
2029	2.5011	18.2728	23.8480	0.0651	0.5763	0.7038	1.2801	0.1350	0.6559	0.7909	0.0000	6,287.062 9	6,287.062 9	1.7326	0.0000	6,330.378 5
2030	2.6679	10.6099	23.7572	0.0648	0.5756	0.2607	0.8363	0.1448	0.2604	0.4053	0.0000	6,801.849 0	6,801.849 0	0.2306	0.0000	6,807.615 4
2031	0.7934	5.1318	11.5825	0.0218	0.4374	0.1000	0.5374	0.1084	0.0998	0.2082	0.0000	2,079.045 5	2,079.045 5	0.0647	0.0000	2,080.663 7
2032	2.9373	11.0195	26.8999	0.0704	0.6662	0.3336	0.9998	0.1548	0.3333	0.4881	0.0000	7,187.784 6	7,187.784 6	0.2532	0.0000	7,194.1143
2034	2.1095	6.9064	15.5796	0.0496	0.2685	0.2251	0.4936	0.0697	0.2250	0.2947	0.0000	5,203.981 3	5,203.981 3	0.1832	0.0000	5,208.561 9

Bucks Creek Hydroelectric Project - Plumas County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2035	4.7592	15.0104	40.5232	0.1198	0.8037	0.4219	1.2257	0.2120	0.4217	0.6336	0.0000	12,388.8683	12,388.8683	0.4100	0.0000	12,399.1183
2036	0.9640	4.7205	12.2079	0.0272	0.2281	0.0993	0.3274	0.0575	0.0992	0.1567	0.0000	2,572.2135	2,572.2135	0.0835	0.0000	2,574.3022
2037	0.6109	1.8833	4.7782	0.0162	0.3271	0.0437	0.3708	0.0701	0.0436	0.1137	0.0000	1,670.9480	1,670.9480	0.0519	0.0000	1,672.2461
2039	2.1014	6.6280	18.2692	0.0547	0.3025	0.1696	0.4721	0.0743	0.1695	0.2438	0.0000	5,687.8734	5,687.8734	0.1816	0.0000	5,692.4124
2040	2.0419	8.0128	22.9921	0.0630	0.4041	0.1440	0.5481	0.1059	0.1439	0.2498	0.0000	6,303.4952	6,303.4952	0.1753	0.0000	6,307.8786
Maximum	4.7592	34.2952	40.8047	0.1198	0.8037	1.3359	1.9149	0.2120	1.2375	1.3891	0.0000	12,388.8683	12,388.8683	2.9378	0.0000	12,399.1183

[illegible]

Bucks Creek Hydroelectric Project - Plumas County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Bucks Creek Hydroelectric Project - Plumas County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	1 - Howell-Bunger valve	Building Construction	6/1/2021	6/4/2021	5	3	
2	3a - Grizzly Forebay Campground - Trail Maintenance	Building Construction	6/1/2021	6/11/2021	5	10	
3	3b - Grizzly Forebay Campground - Lockers	Building Construction	6/1/2021	6/15/2021	5	14	
4	3c - Grizzly Forebay Campground - Fuel Treatment	Building Construction	6/1/2021	6/6/2021	5	5	
5	4a - Grizzly Forebay Rec Area - Trail Maintenance	Building Construction	6/1/2021	6/11/2021	5	10	
6	12b - Sundew Campground - Replace Water	Building Construction	6/1/2022	6/15/2022	5	14	
7	4b - Grizzly Forebay Rec Area - Replace Bathroom	Building Construction	6/1/2023	6/4/2023	5	3	
8	4c - Grizzly Forebay Rec Area - Signage	Building Construction	6/1/2023	6/3/2023	5	2	
9	11d - Sandy Point Day Use - Replace Water	Building Construction	6/1/2024	6/15/2024	5	14	
10	15 - Gravel Augmentation Plan	Building Construction	6/1/2024	6/6/2024	5	5	
11	10a - Mill Creek Campground - Reconstruct	Building Construction	6/1/2025	8/28/2025	5	88	
12	10b - Mill Creek Campground - Trail	Building Construction	6/1/2025	6/11/2025	5	10	
13	10c - Mill Creek Campground - Replace Water	Building Construction	6/1/2025	6/15/2025	5	14	
14	8a - Lower Bucks Campground - Add Capacity	Building Construction	6/1/2026	8/24/2026	5	84	
15	8b - Lower Bucks Campground - Add Electrical	Building Construction	6/1/2026	6/6/2026	5	5	
16	5a - Haskins Valley Campground - Food Storage	Building Construction	6/1/2027	6/3/2027	5	2	

Bucks Creek Hydroelectric Project - Plumas County, Summer

17	5b - Haskins Valley Campground - Improvements	Building Construction	6/1/2027	6/11/2027	5	10
18	5e - Haskins Valley Campground - Add Electrical	Building Construction	6/1/2027	6/15/2027	5	14
19	9a - Lower Bucks Day Use - Convert Campsites	Building Construction	6/1/2027	6/11/2027	5	10
20	5d - Haskins Valley Campground - Add Sites	Building Construction	6/1/2028	6/17/2028	5	16
21	9b - Lower Bucks Day Use - Reconstruct	Building Construction	6/1/2028	6/11/2028	5	10
22	6a - Hutchins Group Campground - Reconstruct	Building Construction	6/1/2029	10/19/2029	5	140
23	6b - Hutchins Group Campground - Trail	Building Construction	6/1/2029	6/11/2029	5	10
24	2 - Bucks Lake Inlet Parking signage	Building Construction	6/1/2030	6/3/2030	5	2
25	13a - West End Cove Day Use - Trail	Building Construction	6/1/2030	6/23/2030	5	22
26	14a - Bucks Boat-In Campground - Demo	Building Construction	6/1/2031	6/9/2031	5	8
27	14b - Bucks Boat-In Campground - Construct Sites	Building Construction	6/1/2031	6/23/2031	5	22
28	14c - Bucks Boat-In Campground - Fuel Treatment	Building Construction	6/1/2031	6/6/2031	5	5
29	7a - Indian Rock Day Use - Reconstruct	Building Construction	6/1/2032	7/3/2032	5	32
30	7b - Indian Rock Day Use - Trails	Building Construction	6/1/2032	6/11/2032	5	10
31	12a - Sundew Campground - Reconstruct	Building Construction	6/1/2034	9/21/2034	5	112
32	11a - Sandy Point Day Use - Trail and Parking	Building Construction	6/1/2035	9/21/2035	5	112
33	11b - Sandy Point Day Use - Boat Launch	Building Construction	6/1/2035	7/13/2035	5	42
34	11c - Sandy Point Day Use - Reconstruct	Building Construction	6/1/2035	10/19/2035	5	140
35	3d - Grizzly Forebay Campground - Reconstruct	Building Construction	6/1/2036	7/27/2036	5	56
36	4d - Grizzly Forebay Rec Area - Reconstruct	Building Construction	6/1/2037	6/11/2037	5	10
37	13b - West End Cove Day Use - Reconstruct	Building Construction	6/1/2039	6/29/2039	5	28
38	5c - Haskins Valley Campground - Reconstruct	Building Construction	6/1/2040	10/13/2040	5	134

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Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1 - Howell-Bunger valve	Generator Sets	1	5.00	84	0.74
2 - Bucks Lake Inlet Parking signage	Excavators	1	8.00	70	0.38
2 - Bucks Lake Inlet Parking signage	Off-Highway Trucks	1	4.00	402	0.38
2 - Bucks Lake Inlet Parking signage	Off-Highway Trucks	1	8.00	402	0.38
2 - Bucks Lake Inlet Parking signage	Generator Sets	1	8.00	84	0.74
3a - Grizzly Forebay Campground - Trail Maintenance	Other General Industrial Equipment	2	8.00	4	0.34
3a - Grizzly Forebay Campground - Trail Maintenance	Other General Industrial Equipment	2	8.00	2	0.34
3b - Grizzly Forebay Campground - Lockers	Other General Industrial Equipment	1	2.00	4	0.34
3c - Grizzly Forebay Campground - Fuel Treatment	Tractors/Loaders/Backhoes	1	7.00	97	0.37
3c - Grizzly Forebay Campground - Fuel Treatment	Other General Industrial Equipment	1	7.00	25	0.34
3c - Grizzly Forebay Campground - Fuel Treatment	Excavators	1	7.00	158	0.38
3c - Grizzly Forebay Campground - Fuel Treatment	Skid Steer Loaders	1	7.00	65	0.37
3c - Grizzly Forebay Campground - Fuel Treatment	Other General Industrial Equipment	3	7.00	4	0.34
3d - Grizzly Forebay Campground - Reconstruct	Generator Sets	1	8.00	84	0.74
3d - Grizzly Forebay Campground - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
3d - Grizzly Forebay Campground - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37

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3d - Grizzly Forebay Campground - Reconstruct	Cranes	1	8.00	231	0.29
3d - Grizzly Forebay Campground - Reconstruct	Paving Equipment	1	8.00	132	0.36
3d - Grizzly Forebay Campground - Reconstruct	Plate Compactors	1	8.00	8	0.43
4a - Grizzly Forebay Rec Area - Trail Maintenance	Other General Industrial Equipment	2	8.00	4	0.34
4a - Grizzly Forebay Rec Area - Trail Maintenance	Other General Industrial Equipment	2	8.00	2	0.34
4b - Grizzly Forebay Rec Area - Replace Bathroom	Excavators	1	8.00	158	0.38
4b - Grizzly Forebay Rec Area - Replace Bathroom	Off-Highway Trucks	1	8.00	402	0.38
4b - Grizzly Forebay Rec Area - Replace Bathroom	Rollers	1	8.00	80	0.38
4b - Grizzly Forebay Rec Area - Replace Bathroom	Off-Highway Trucks	1	8.00	402	0.38
4b - Grizzly Forebay Rec Area - Replace Bathroom	Cranes	1	5.00	231	0.29
4c - Grizzly Forebay Rec Area - Signage	Excavators	1	8.00	70	0.38
4c - Grizzly Forebay Rec Area - Signage	Off-Highway Trucks	1	4.00	402	0.38
4c - Grizzly Forebay Rec Area - Signage	Off-Highway Trucks	1	8.00	402	0.38
4c - Grizzly Forebay Rec Area - Signage	Generator Sets	1	8.00	84	0.74
4d - Grizzly Forebay Rec Area - Reconstruct	Generator Sets	1	2.00	84	0.74
4d - Grizzly Forebay Rec Area - Reconstruct	Other General Industrial Equipment	1	2.00	4	0.34
4d - Grizzly Forebay Rec Area - Reconstruct	Tractors/Loaders/Backhoes	1	4.00	97	0.37
4d - Grizzly Forebay Rec Area - Reconstruct	Off-Highway Trucks	1	4.00	402	0.38
4d - Grizzly Forebay Rec Area - Reconstruct	Cranes	1	4.00	231	0.29
4d - Grizzly Forebay Rec Area - Reconstruct	Plate Compactors	1	4.00	8	0.43
5a - Haskins Valley Campground - Food Storage	Other General Industrial Equipment	1	8.00	4	0.34
5a - Haskins Valley Campground - Food Storage	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Bucks Creek Hydroelectric Project - Plumas County, Summer

5b - Haskins Valley Campground - Improvements	Skid Steer Loaders	1	8.00	65	0.37
5b - Haskins Valley Campground - Improvements	Excavators	1	8.00	70	0.38
5b - Haskins Valley Campground - Improvements	Off-Highway Trucks	1	8.00	402	0.38
5b - Haskins Valley Campground - Improvements	Off-Highway Trucks	1	8.00	402	0.38
5b - Haskins Valley Campground - Improvements	Plate Compactors	1	8.00	8	0.43
5c - Haskins Valley Campground - Reconstruct	Generator Sets	2	8.00	84	0.74
5c - Haskins Valley Campground - Reconstruct	Bore/Drill Rigs	1	8.00	221	0.50
5c - Haskins Valley Campground - Reconstruct	Tractors/Loaders/Backhoes	2	6.00	97	0.37
5c - Haskins Valley Campground - Reconstruct	Skid Steer Loaders	1	6.00	65	0.37
5c - Haskins Valley Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
5c - Haskins Valley Campground - Reconstruct	Off-Highway Trucks	1	2.00	402	0.38
5c - Haskins Valley Campground - Reconstruct	Plate Compactors	1	2.00	8	0.43
5c - Haskins Valley Campground - Reconstruct	Cranes	1	4.00	231	0.29
5c - Haskins Valley Campground - Reconstruct	Paving Equipment	1	6.00	132	0.36
5c - Haskins Valley Campground - Reconstruct	Rollers	1	8.00	80	0.38
5d - Haskins Valley Campground - Add Sites	Skid Steer Loaders	1	8.00	65	0.37
5d - Haskins Valley Campground - Add Sites	Excavators	1	8.00	70	0.38
5d - Haskins Valley Campground - Add Sites	Off-Highway Trucks	1	8.00	402	0.38
5d - Haskins Valley Campground - Add Sites	Off-Highway Trucks	1	8.00	402	0.38
5d - Haskins Valley Campground - Add Sites	Plate Compactors	1	8.00	8	0.43
5e - Haskins Valley Campground - Add Electrical	Tractors/Loaders/Backhoes	2	8.00	97	0.37
6a - Hutchins Group Campground - Reconstruct	Generator Sets	1	8.00	84	0.74

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6a - Hutchins Group Campground - Reconstruct	Bore/Drill Rigs	1	8.00	221	0.50
6a - Hutchins Group Campground - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
6a - Hutchins Group Campground - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
6a - Hutchins Group Campground - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
6a - Hutchins Group Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
6a - Hutchins Group Campground - Reconstruct	Cranes	1	8.00	231	0.29
6a - Hutchins Group Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
6a - Hutchins Group Campground - Reconstruct	Paving Equipment	1	8.00	132	0.36
6a - Hutchins Group Campground - Reconstruct	Plate Compactors	1	8.00	8	0.43
6b - Hutchins Group Campground - Trail	Other General Industrial Equipment	2	8.00	4	0.34
6b - Hutchins Group Campground - Trail	Other General Industrial Equipment	2	8.00	2	0.34
7a - Indian Rock Day Use - Reconstruct	Generator Sets	1	8.00	84	0.74
7a - Indian Rock Day Use - Reconstruct	Other General Industrial Equipment	1	2.00	4	0.34
7a - Indian Rock Day Use - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
7a - Indian Rock Day Use - Reconstruct	Excavators	1	8.00	158	0.38
7a - Indian Rock Day Use - Reconstruct	Rollers	1	8.00	80	0.38
7a - Indian Rock Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
7a - Indian Rock Day Use - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
7a - Indian Rock Day Use - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
7a - Indian Rock Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
7a - Indian Rock Day Use - Reconstruct	Cranes	1	8.00	231	0.29
7a - Indian Rock Day Use - Reconstruct	Paving Equipment	1	8.00	132	0.36
7a - Indian Rock Day Use - Reconstruct	Plate Compactors	1	8.00	8	0.43
7b - Indian Rock Day Use - Trails	Other General Industrial Equipment	2	8.00	4	0.34
7b - Indian Rock Day Use - Trails	Other General Industrial Equipment	2	8.00	2	0.34

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8a - Lower Bucks Campground - Add Capacity	Skid Steer Loaders	1	8.00	65	0.37
8a - Lower Bucks Campground - Add Capacity	Excavators	1	8.00	70	0.38
8a - Lower Bucks Campground - Add Capacity	Off-Highway Trucks	1	8.00	402	0.38
8a - Lower Bucks Campground - Add Capacity	Off-Highway Trucks	1	8.00	402	0.38
8a - Lower Bucks Campground - Add Capacity	Paving Equipment	1	8.00	132	0.36
8a - Lower Bucks Campground - Add Capacity	Plate Compactors	1	8.00	8	0.43
8a - Lower Bucks Campground - Add Capacity	Rubber Tired Dozers	1	8.00	247	0.40
8a - Lower Bucks Campground - Add Capacity	Tractors/Loaders/Backhoes	1	8.00	97	0.37
8a - Lower Bucks Campground - Add Capacity	Skid Steer Loaders	1	8.00	65	0.37
8a - Lower Bucks Campground - Add Capacity	Tractors/Loaders/Backhoes	1	8.00	97	0.37
8a - Lower Bucks Campground - Add Capacity	Off-Highway Trucks	1	8.00	402	0.38
8a - Lower Bucks Campground - Add Capacity	Tractors/Loaders/Backhoes	1	8.00	97	0.37
8a - Lower Bucks Campground - Add Capacity	Skid Steer Loaders	1	8.00	65	0.37
8a - Lower Bucks Campground - Add Capacity	Off-Highway Trucks	1	8.00	402	0.38
8a - Lower Bucks Campground - Add Capacity	Cranes	1	8.00	231	0.29
8a - Lower Bucks Campground - Add Capacity	Generator Sets	1	8.00	84	0.74
8b - Lower Bucks Campground - Add Electrical	Tractors/Loaders/Backhoes	1	8.00	97	0.37
9a - Lower Bucks Day Use - Convert Campsites	Excavators	1	8.00	70	0.38
9a - Lower Bucks Day Use - Convert Campsites	Off-Highway Trucks	1	4.00	402	0.38
9a - Lower Bucks Day Use - Convert Campsites	Off-Highway Trucks	1	8.00	402	0.38
9a - Lower Bucks Day Use - Convert Campsites	Generator Sets	1	8.00	84	0.74
9a - Lower Bucks Day Use - Convert Campsites	Other General Industrial Equipment	1	2.00	4	0.34

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9b - Lower Bucks Day Use - Reconstruct	Excavators	1	8.00	70	0.38
9b - Lower Bucks Day Use - Reconstruct	Off-Highway Trucks	1	4.00	402	0.38
9b - Lower Bucks Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
9b - Lower Bucks Day Use - Reconstruct	Generator Sets	1	8.00	84	0.74
9b - Lower Bucks Day Use - Reconstruct	Other General Industrial Equipment	1	2.00	4	0.34
10a - Mill Creek Campground - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
10a - Mill Creek Campground - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	70	0.37
10a - Mill Creek Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
10a - Mill Creek Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
10a - Mill Creek Campground - Reconstruct	Paving Equipment	1	8.00	132	0.36
10a - Mill Creek Campground - Reconstruct	Cranes	1	8.00	231	0.29
10a - Mill Creek Campground - Reconstruct	Plate Compactors	1	8.00	8	0.43
10a - Mill Creek Campground - Reconstruct	Generator Sets	1	2.00	84	0.74
10b - Mill Creek Campground - Trail	Other General Industrial Equipment	2	8.00	4	0.34
10b - Mill Creek Campground - Trail	Other General Industrial Equipment	2	8.00	2	0.34
10c - Mill Creek Campground - Replace Water	Bore/Drill Rigs	1	8.00	221	0.50
10c - Mill Creek Campground - Replace Water	Tractors/Loaders/Backhoes	1	8.00	97	0.37
11a - Sandy Point Day Use - Trail and Parking	Other General Industrial Equipment	2	4.00	4	0.34
11a - Sandy Point Day Use - Trail and Parking	Other General Industrial Equipment	2	4.00	2	0.34
11a - Sandy Point Day Use - Trail and Parking	Skid Steer Loaders	1	4.00	65	0.37
11a - Sandy Point Day Use - Trail and Parking	Paving Equipment	1	8.00	132	0.36
11a - Sandy Point Day Use - Trail and Parking	Plate Compactors	1	8.00	8	0.43

Bucks Creek Hydroelectric Project - Plumas County, Summer

11b - Sandy Point Day Use - Boat Launch	Skid Steer Loaders	1	8.00	65	0.37
11b - Sandy Point Day Use - Boat Launch	Off-Highway Trucks	1	8.00	402	0.38
11b - Sandy Point Day Use - Boat Launch	Tractors/Loaders/Backhoes	1	8.00	97	0.37
11b - Sandy Point Day Use - Boat Launch	Excavators	1	8.00	158	0.38
11b - Sandy Point Day Use - Boat Launch	Rubber Tired Dozers	1	8.00	247	0.40
11b - Sandy Point Day Use - Boat Launch	Rollers	1	8.00	80	0.38
11b - Sandy Point Day Use - Boat Launch	Off-Highway Trucks	2	4.00	402	0.38
11c - Sandy Point Day Use - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
11c - Sandy Point Day Use - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
11c - Sandy Point Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
11c - Sandy Point Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
11c - Sandy Point Day Use - Reconstruct	Cranes	1	8.00	231	0.29
11c - Sandy Point Day Use - Reconstruct	Paving Equipment	1	8.00	132	0.36
11c - Sandy Point Day Use - Reconstruct	Plate Compactors	1	8.00	8	0.43
11c - Sandy Point Day Use - Reconstruct	Generator Sets	1	8.00	84	0.74
11d - Sandy Point Day Use - Replace Water	Bore/Drill Rigs	1	8.00	221	0.50
11d - Sandy Point Day Use - Replace Water	Tractors/Loaders/Backhoes	1	8.00	97	0.37
12a - Sundew Campground - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
12a - Sundew Campground - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
12a - Sundew Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
12a - Sundew Campground - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
12a - Sundew Campground - Reconstruct	Cranes	1	8.00	231	0.29

Bucks Creek Hydroelectric Project - Plumas County, Summer

12a - Sundew Campground - Reconstruct	Paving Equipment	1	8.00	132	0.36
12a - Sundew Campground - Reconstruct	Plate Compactors	1	8.00	8	0.43
12a - Sundew Campground - Reconstruct	Generator Sets	1	2.00	84	0.74
12b - Sundew Campground - Replace Water	Bore/Drill Rigs	1	8.00	221	0.50
12b - Sundew Campground - Replace Water	Tractors/Loaders/Backhoes	1	8.00	97	0.37
13a - West End Cove Day Use - Trail	Other General Industrial Equipment	2	8.00	4	0.34
13a - West End Cove Day Use - Trail	Other General Industrial Equipment	2	8.00	2	0.34
13a - West End Cove Day Use - Trail	Generator Sets	1	8.00	84	0.74
13a - West End Cove Day Use - Trail	Excavators	1	8.00	70	0.38
13a - West End Cove Day Use - Trail	Off-Highway Trucks	1	8.00	402	0.38
13a - West End Cove Day Use - Trail	Plate Compactors	1	8.00	8	0.43
13a - West End Cove Day Use - Trail	Skid Steer Loaders	1	8.00	65	0.37
13a - West End Cove Day Use - Trail	Tractors/Loaders/Backhoes	1	8.00	97	0.37
13b - West End Cove Day Use - Reconstruct	Tractors/Loaders/Backhoes	1	8.00	97	0.37
13b - West End Cove Day Use - Reconstruct	Skid Steer Loaders	1	8.00	65	0.37
13b - West End Cove Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
13b - West End Cove Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
13b - West End Cove Day Use - Reconstruct	Cranes	1	8.00	231	0.29
13b - West End Cove Day Use - Reconstruct	Paving Equipment	1	8.00	132	0.36
13b - West End Cove Day Use - Reconstruct	Plate Compactors	1	8.00	8	0.43
13b - West End Cove Day Use - Reconstruct	Generator Sets	1	8.00	84	0.74
14a - Bucks Boat-In Campground - Demo	Generator Sets	1	8.00	84	0.74
14b - Bucks Boat-In Campground - Construct Sites	Generator Sets	1	8.00	84	0.74

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14b - Bucks Boat-In Campground - Construct Sites	Other General Industrial Equipment	2	8.00	4	0.34
14b - Bucks Boat-In Campground - Construct Sites	Other General Industrial Equipment	2	8.00	2	0.34
14b - Bucks Boat-In Campground - Construct Sites	Skid Steer Loaders	1	8.00	65	0.37
14b - Bucks Boat-In Campground - Construct Sites	Excavators	1	8.00	70	0.38
14c - Bucks Boat-In Campground - Fuel Treatment	Other General Industrial Equipment	3	6.00	4	0.34
15 - Gravel Augmentation Plan	Skid Steer Loaders	1	2.00	65	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1 - Howell-Bunger Valve	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
2 - Bucks Lake Inlet Parking signage	4	10.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
3a - Grizzly Forebay Campground - Trail Maint	4	10.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
3b - Grizzly Forebay Campground - Locker	1	4.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
3c - Grizzly Forebay Campground - Fuel Tr	7	18.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
3d - Grizzly Forebay Campground - Reconstr	6	16.00	0.00	8.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
4a - Grizzly Forebay Rec Area - Trail Maint	4	10.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
4b - Grizzly Forebay Rec Area - Benches B	5	14.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
4c - Grizzly Forebay Rec Area - Signage	4	10.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
4d - Grizzly Forebay Rec Area - Reconstru	6	16.00	0.00	6.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
5a - Haskins Valley Campground - Food S	2	6.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
5b - Haskins Valley Campground - Improv	5	14.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
5c - Haskins Valley Campground - Reconstr	12	30.00	0.00	52.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
5d - Haskins Valley Campground - Add Sit	5	14.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
5e - Haskins Valley Campground - Add FI	2	6.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
6a - Hutchins Group Campground - Reconstr	10	26.00	0.00	12.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT

Bucks Creek Hydroelectric Project - Plumas County, Summer

6b - Hutchins Group Campground - Trail	4	10.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
7a - Indian Rock Day Use - Reconstruct	12	30.00	0.00	16.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
7b - Indian Rock Day Use - Trails	4	10.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
8a - Lower Bucks Campground - Add Ca	16	38.00	0.00	50.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
8b - Lower Bucks Campground - Add El	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
9a - Lower Bucks Day Use - Convert Campsi	5	5.00	14.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
9b - Lower Bucks Day Use - Reconstruct	5	5.00	14.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
10a - Mill Creek Campground - Recon	8	20.00	0.00	8.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
10b - Mill Creek Campground - Trail	4	10.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
10c - Mill Creek Campground - Penlan	2	6.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
11a - Sandy Point Day Use - Trail and Parkin	7	18.00	0.00	114.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
11b - Sandy Point Day Use - Boat Launch	8	20.00	0.00	20.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
11c - Sandy Point Day Use - Reconstruct	8	20.00	0.00	24.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
11d - Sandy Point Day Use - Replace Water	2	6.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
12a - Sundew Campground - Recon	8	20.00	0.00	12.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
12b - Sundew Campground - Penlan	2	6.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
13a - West End Cove Day Use - Trail	10	26.00	0.00	14.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
13b - West End Cove Day Use - Reconstruct	8	20.00	0.00	8.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
14a - Bucks Boat-In Campground - Demo	1	4.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
14b - Bucks Boat-In Campground - Constr	7	18.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
14c - Bucks Boat-In Campground - Fuel Tr	3	8.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
15 - Gravel Augmentation Plan	1	4.00	0.00	6.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.2 1 - Howell-Bunger valve - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2234	1.9789	2.3030	4.1100e-003		0.1048	0.1048		0.1048	0.1048		389.3966	389.3966	0.0199		389.8934
Total	0.2234	1.9789	2.3030	4.1100e-003		0.1048	0.1048		0.1048	0.1048		389.3966	389.3966	0.0199		389.8934

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.3800e-003	0.2849	0.0455	7.7000e-004	0.0138	1.3600e-003	0.0152	3.8500e-003	1.3100e-003	5.1500e-003		81.0750	81.0750	2.2700e-003		81.1318
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0499	0.0308	0.3624	5.7000e-004	0.0511	5.5000e-004	0.0516	0.0136	5.0000e-004	0.0141		56.3919	56.3919	3.8900e-003		56.4892
Total	0.0573	0.3157	0.4079	1.3400e-003	0.0649	1.9100e-003	0.0668	0.0174	1.8100e-003	0.0192		137.4669	137.4669	6.1600e-003		137.6210

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.2 1 - Howell-Bunger valve - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2234	1.9789	2.3030	4.1100e-003		0.1048	0.1048		0.1048	0.1048	0.0000	389.3966	389.3966	0.0199		389.8934
Total	0.2234	1.9789	2.3030	4.1100e-003		0.1048	0.1048		0.1048	0.1048	0.0000	389.3966	389.3966	0.0199		389.8934

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.3800e-003	0.2849	0.0455	7.7000e-004	0.0138	1.3600e-003	0.0152	3.8500e-003	1.3100e-003	5.1500e-003		81.0750	81.0750	2.2700e-003		81.1318
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0499	0.0308	0.3624	5.7000e-004	0.0511	5.5000e-004	0.0516	0.0136	5.0000e-004	0.0141		56.3919	56.3919	3.8900e-003		56.4892
Total	0.0573	0.3157	0.4079	1.3400e-003	0.0649	1.9100e-003	0.0668	0.0174	1.8100e-003	0.0192		137.4669	137.4669	6.1600e-003		137.6210

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.3 3a - Grizzly Forebay Campground - Trail Maintenance - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Total					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1248	0.0771	0.9060	1.4200e-003	0.1277	1.3700e-003	0.1291	0.0339	1.2600e-003	0.0351		140.9797	140.9797	9.7300e-003		141.2230
Total	0.1248	0.0771	0.9060	1.4200e-003	0.1277	1.3700e-003	0.1291	0.0339	1.2600e-003	0.0351		140.9797	140.9797	9.7300e-003		141.2230

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.3 3a - Grizzly Forebay Campground - Trail Maintenance - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Total					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1248	0.0771	0.9060	1.4200e-003	0.1277	1.3700e-003	0.1291	0.0339	1.2600e-003	0.0351		140.9797	140.9797	9.7300e-003		141.2230
Total	0.1248	0.0771	0.9060	1.4200e-003	0.1277	1.3700e-003	0.1291	0.0339	1.2600e-003	0.0351		140.9797	140.9797	9.7300e-003		141.2230

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.4 3b - Grizzly Forebay Campground - Lockers - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0499	0.0308	0.3624	5.7000e-004	0.0511	5.5000e-004	0.0516	0.0136	5.0000e-004	0.0141		56.3919	56.3919	3.8900e-003		56.4892
Total	0.0499	0.0308	0.3624	5.7000e-004	0.0511	5.5000e-004	0.0516	0.0136	5.0000e-004	0.0141		56.3919	56.3919	3.8900e-003		56.4892

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0499	0.0308	0.3624	5.7000e-004	0.0511	5.5000e-004	0.0516	0.0136	5.0000e-004	0.0141		56.3919	56.3919	3.8900e-003		56.4892
Total	0.0499	0.0308	0.3624	5.7000e-004	0.0511	5.5000e-004	0.0516	0.0136	5.0000e-004	0.0141		56.3919	56.3919	3.8900e-003		56.4892

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.5 3c - Grizzly Forebay Campground - Fuel Treatment - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5395	5.0016	6.7538	9.7600e-003		0.2628	0.2628		0.2418	0.2418		945.1503	945.1503	0.3057		952.7923
Total	0.5395	5.0016	6.7538	9.7600e-003		0.2628	0.2628		0.2418	0.2418		945.1503	945.1503	0.3057		952.7923

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2247	0.1388	1.6307	2.5600e-003	0.2299	2.4600e-003	0.2324	0.0610	2.2700e-003	0.0632		253.7635	253.7635	0.0175		254.2014
Total	0.2247	0.1388	1.6307	2.5600e-003	0.2299	2.4600e-003	0.2324	0.0610	2.2700e-003	0.0632		253.7635	253.7635	0.0175		254.2014

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.5 3c - Grizzly Forebay Campground - Fuel Treatment - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5395	5.0016	6.7538	9.7600e-003		0.2628	0.2628		0.2418	0.2418	0.0000	945.1503	945.1503	0.3057		952.7923
Total	0.5395	5.0016	6.7538	9.7600e-003		0.2628	0.2628		0.2418	0.2418	0.0000	945.1503	945.1503	0.3057		952.7923

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2247	0.1388	1.6307	2.5600e-003	0.2299	2.4600e-003	0.2324	0.0610	2.2700e-003	0.0632		253.7635	253.7635	0.0175		254.2014
Total	0.2247	0.1388	1.6307	2.5600e-003	0.2299	2.4600e-003	0.2324	0.0610	2.2700e-003	0.0632		253.7635	253.7635	0.0175		254.2014

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.6 4a - Grizzly Forebay Rec Area - Trail Maintenance - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1248	0.0771	0.9060	1.4200e-003	0.1277	1.3700e-003	0.1291	0.0339	1.2600e-003	0.0351		140.9797	140.9797	9.7300e-003		141.2230
Total	0.1248	0.0771	0.9060	1.4200e-003	0.1277	1.3700e-003	0.1291	0.0339	1.2600e-003	0.0351		140.9797	140.9797	9.7300e-003		141.2230

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1248	0.0771	0.9060	1.4200e-003	0.1277	1.3700e-003	0.1291	0.0339	1.2600e-003	0.0351		140.9797	140.9797	9.7300e-003		141.2230
Total	0.1248	0.0771	0.9060	1.4200e-003	0.1277	1.3700e-003	0.1291	0.0339	1.2600e-003	0.0351		140.9797	140.9797	9.7300e-003		141.2230

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.7 12b - Sundew Campground - Replace Water - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3888	3.9421	4.2791	0.0126		0.1629	0.1629		0.1498	0.1498		1,214.7998	1,214.7998	0.3929		1,224.6220
Total	0.3888	3.9421	4.2791	0.0126		0.1629	0.1629		0.1498	0.1498		1,214.7998	1,214.7998	0.3929		1,224.6220

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.9800e-003	0.1121	0.0182	3.3000e-004	8.8700e-003	5.1000e-004	9.3900e-003	2.3700e-003	4.9000e-004	2.8700e-003		34.3718	34.3718	9.5000e-004		34.3955
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0699	0.0412	0.4798	8.2000e-004	0.0766	7.7000e-004	0.0774	0.0203	7.1000e-004	0.0210		81.7913	81.7913	5.1100e-003		81.9191
Total	0.0729	0.1532	0.4979	1.1500e-003	0.0855	1.2800e-003	0.0868	0.0227	1.2000e-003	0.0239		116.1631	116.1631	6.0600e-003		116.3146

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.7 12b - Sundew Campground - Replace Water - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3888	3.9421	4.2791	0.0126		0.1629	0.1629		0.1498	0.1498	0.0000	1,214.7998	1,214.7998	0.3929		1,224.6220
Total	0.3888	3.9421	4.2791	0.0126		0.1629	0.1629		0.1498	0.1498	0.0000	1,214.7998	1,214.7998	0.3929		1,224.6220

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.9800e-003	0.1121	0.0182	3.3000e-004	8.8700e-003	5.1000e-004	9.3900e-003	2.3700e-003	4.9000e-004	2.8700e-003		34.3718	34.3718	9.5000e-004		34.3955
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0699	0.0412	0.4798	8.2000e-004	0.0766	7.7000e-004	0.0774	0.0203	7.1000e-004	0.0210		81.7913	81.7913	5.1100e-003		81.9191
Total	0.0729	0.1532	0.4979	1.1500e-003	0.0855	1.2800e-003	0.0868	0.0227	1.2000e-003	0.0239		116.1631	116.1631	6.0600e-003		116.3146

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.8 4b - Grizzly Forebay Rec Area - Replace Bathroom - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5698	12.6792	12.8335	0.0379		0.5220	0.5220		0.4802	0.4802		3,663.2523	3,663.2523	1.1848		3,692.8716
Total	1.5698	12.6792	12.8335	0.0379		0.5220	0.5220		0.4802	0.4802		3,663.2523	3,663.2523	1.1848		3,692.8716

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0106	0.3875	0.0771	1.4800e-003	0.0474	1.5500e-003	0.0490	0.0126	1.4800e-003	0.0140		156.0438	156.0438	3.9100e-003		156.1417
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602
Total	0.1625	0.4728	1.0577	3.3300e-003	0.2262	3.2400e-003	0.2295	0.0600	3.0400e-003	0.0630		340.2446	340.2446	0.0143		340.6019

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.8 4b - Grizzly Forebay Rec Area - Replace Bathroom - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5698	12.6792	12.8335	0.0379		0.5220	0.5220		0.4802	0.4802	0.0000	3,663.2523	3,663.2523	1.1848		3,692.8716
Total	1.5698	12.6792	12.8335	0.0379		0.5220	0.5220		0.4802	0.4802	0.0000	3,663.2523	3,663.2523	1.1848		3,692.8716

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0106	0.3875	0.0771	1.4800e-003	0.0474	1.5500e-003	0.0490	0.0126	1.4800e-003	0.0140		156.0438	156.0438	3.9100e-003		156.1417
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602
Total	0.1625	0.4728	1.0577	3.3300e-003	0.2262	3.2400e-003	0.2295	0.0600	3.0400e-003	0.0630		340.2446	340.2446	0.0143		340.6019

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.9 4c - Grizzly Forebay Rec Area - Signage - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1696	9.1843	10.2224	0.0287		0.3763	0.3763		0.3565	0.3565		2,762.031 2	2,762.031 2	0.7192		2,780.0113
Total	1.1696	9.1843	10.2224	0.0287		0.3763	0.3763		0.3565	0.3565		2,762.031 2	2,762.031 2	0.7192		2,780.011 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.9300e-003	0.2907	0.0578	1.1100e-003	0.0256	1.1600e-003	0.0268	6.9700e-003	1.1100e-003	8.0900e-003		117.0328	117.0328	2.9400e-003		117.1062
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1085	0.0609	0.7005	1.3200e-003	0.1277	1.2100e-003	0.1289	0.0339	1.1100e-003	0.0350		131.5720	131.5720	7.4100e-003		131.7573
Total	0.1164	0.3516	0.7583	2.4300e-003	0.1534	2.3700e-003	0.1557	0.0408	2.2200e-003	0.0431		248.6048	248.6048	0.0104		248.8635

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.9 4c - Grizzly Forebay Rec Area - Signage - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1696	9.1843	10.2224	0.0287		0.3763	0.3763		0.3565	0.3565	0.0000	2,762.031 2	2,762.031 2	0.7192		2,780.0113
Total	1.1696	9.1843	10.2224	0.0287		0.3763	0.3763		0.3565	0.3565	0.0000	2,762.031 2	2,762.031 2	0.7192		2,780.011 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.9300e-003	0.2907	0.0578	1.1100e-003	0.0256	1.1600e-003	0.0268	6.9700e-003	1.1100e-003	8.0900e-003		117.0328	117.0328	2.9400e-003		117.1062
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1085	0.0609	0.7005	1.3200e-003	0.1277	1.2100e-003	0.1289	0.0339	1.1100e-003	0.0350		131.5720	131.5720	7.4100e-003		131.7573
Total	0.1164	0.3516	0.7583	2.4300e-003	0.1534	2.3700e-003	0.1557	0.0408	2.2200e-003	0.0431		248.6048	248.6048	0.0104		248.8635

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.10 11d - Sandy Point Day Use - Replace Water - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3544	3.3492	4.2740	0.0126		0.1291	0.1291		0.1188	0.1188		1,219.130 1	1,219.130 1	0.3943		1,228.987 4
Total	0.3544	3.3492	4.2740	0.0126		0.1291	0.1291		0.1188	0.1188		1,219.130 1	1,219.130 1	0.3943		1,228.987 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1800e-003	0.0773	0.0163	3.1000e-004	9.5900e-003	2.9000e-004	9.8800e-003	2.5500e-003	2.8000e-004	2.8200e-003		33.1887	33.1887	8.1000e-004		33.2089
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0603	0.0325	0.3745	7.7000e-004	0.0766	6.8000e-004	0.0773	0.0203	6.3000e-004	0.0210		76.0633	76.0633	3.8300e-003		76.1591
Total	0.0624	0.1098	0.3908	1.0800e-003	0.0862	9.7000e-004	0.0872	0.0229	9.1000e-004	0.0238		109.2521	109.2521	4.6400e-003		109.3680

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.10 11d - Sandy Point Day Use - Replace Water - 2024**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3544	3.3492	4.2740	0.0126		0.1291	0.1291		0.1188	0.1188	0.0000	1,219.1301	1,219.1301	0.3943		1,228.9874
Total	0.3544	3.3492	4.2740	0.0126		0.1291	0.1291		0.1188	0.1188	0.0000	1,219.1301	1,219.1301	0.3943		1,228.9874

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1800e-003	0.0773	0.0163	3.1000e-004	9.5900e-003	2.9000e-004	9.8800e-003	2.5500e-003	2.8000e-004	2.8200e-003		33.1887	33.1887	8.1000e-004		33.2089
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0603	0.0325	0.3745	7.7000e-004	0.0766	6.8000e-004	0.0773	0.0203	6.3000e-004	0.0210		76.0633	76.0633	3.8300e-003		76.1591
Total	0.0624	0.1098	0.3908	1.0800e-003	0.0862	9.7000e-004	0.0872	0.0229	9.1000e-004	0.0238		109.2521	109.2521	4.6400e-003		109.3680

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.11 15 - Gravel Augmentation Plan - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0156	0.2066	0.3461	5.2000e-004		6.6400e-003	6.6400e-003		6.1100e-003	6.1100e-003		50.1418	50.1418	0.0162		50.5472
Total	0.0156	0.2066	0.3461	5.2000e-004		6.6400e-003	6.6400e-003		6.1100e-003	6.1100e-003		50.1418	50.1418	0.0162		50.5472

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.1600e-003	0.3246	0.0685	1.3200e-003	0.0367	1.2100e-003	0.0379	9.8300e-003	1.1600e-003	0.0110		139.3927	139.3927	3.3800e-003		139.4772
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0402	0.0217	0.2497	5.1000e-004	0.0511	4.5000e-004	0.0515	0.0136	4.2000e-004	0.0140		50.7089	50.7089	2.5500e-003		50.7727
Total	0.0493	0.3463	0.3182	1.8300e-003	0.0878	1.6600e-003	0.0895	0.0234	1.5800e-003	0.0250		190.1016	190.1016	5.9300e-003		190.2500

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.11 15 - Gravel Augmentation Plan - 2024**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0156	0.2066	0.3461	5.2000e-004		6.6400e-003	6.6400e-003		6.1100e-003	6.1100e-003	0.0000	50.1418	50.1418	0.0162		50.5472
Total	0.0156	0.2066	0.3461	5.2000e-004		6.6400e-003	6.6400e-003		6.1100e-003	6.1100e-003	0.0000	50.1418	50.1418	0.0162		50.5472

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.1600e-003	0.3246	0.0685	1.3200e-003	0.0367	1.2100e-003	0.0379	9.8300e-003	1.1600e-003	0.0110		139.3927	139.3927	3.3800e-003		139.4772
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0402	0.0217	0.2497	5.1000e-004	0.0511	4.5000e-004	0.0515	0.0136	4.2000e-004	0.0140		50.7089	50.7089	2.5500e-003		50.7727
Total	0.0493	0.3463	0.3182	1.8300e-003	0.0878	1.6600e-003	0.0895	0.0234	1.5800e-003	0.0250		190.1016	190.1016	5.9300e-003		190.2500

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.12 10a - Mill Creek Campground - Reconstruct - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0121	0.0000	0.0121	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	1.6761	12.7705	14.7675	0.0427		0.4988	0.4988		0.4616	0.4616		4,121.1859	4,121.1859	1.2807		4,153.2030
Total	1.6761	12.7705	14.7675	0.0427	0.0121	0.4988	0.5108	1.3000e-003	0.4616	0.4629		4,121.1859	4,121.1859	1.2807		4,153.2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7000e-004	0.0231	5.1300e-003	1.0000e-004	3.0000e-003	8.0000e-005	3.0900e-003	8.0000e-004	8.0000e-005	8.8000e-004		10.4924	10.4924	2.5000e-004		10.4985
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1868	0.0977	1.1395	2.4500e-003	0.2555	2.1700e-003	0.2576	0.0678	1.9900e-003	0.0697		244.0505	244.0505	0.0114		244.3347
Total	0.1875	0.1209	1.1446	2.5500e-003	0.2585	2.2500e-003	0.2607	0.0686	2.0700e-003	0.0706		254.5428	254.5428	0.0116		254.8332

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.12 10a - Mill Creek Campground - Reconstruct - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0121	0.0000	0.0121	1.3000e-003	0.0000	1.3000e-003			0.0000			0.0000
Off-Road	1.6761	12.7705	14.7675	0.0427		0.4988	0.4988		0.4616	0.4616	0.0000	4,121.1859	4,121.1859	1.2807		4,153.2030
Total	1.6761	12.7705	14.7675	0.0427	0.0121	0.4988	0.5108	1.3000e-003	0.4616	0.4629	0.0000	4,121.1859	4,121.1859	1.2807		4,153.2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.7000e-004	0.0231	5.1300e-003	1.0000e-004	3.0000e-003	8.0000e-005	3.0900e-003	8.0000e-004	8.0000e-005	8.8000e-004		10.4924	10.4924	2.5000e-004		10.4985
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1868	0.0977	1.1395	2.4500e-003	0.2555	2.1700e-003	0.2576	0.0678	1.9900e-003	0.0697		244.0505	244.0505	0.0114		244.3347
Total	0.1875	0.1209	1.1446	2.5500e-003	0.2585	2.2500e-003	0.2607	0.0686	2.0700e-003	0.0706		254.5428	254.5428	0.0116		254.8332

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.13 10b - Mill Creek Campground - Trail - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Total					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0934	0.0489	0.5698	1.2300e-003	0.1277	1.0800e-003	0.1288	0.0339	1.0000e-003	0.0349		122.0252	122.0252	5.6800e-003		122.1673
Total	0.0934	0.0489	0.5698	1.2300e-003	0.1277	1.0800e-003	0.1288	0.0339	1.0000e-003	0.0349		122.0252	122.0252	5.6800e-003		122.1673

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.13 10b - Mill Creek Campground - Trail - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Total					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0934	0.0489	0.5698	1.2300e-003	0.1277	1.0800e-003	0.1288	0.0339	1.0000e-003	0.0349		122.0252	122.0252	5.6800e-003		122.1673
Total	0.0934	0.0489	0.5698	1.2300e-003	0.1277	1.0800e-003	0.1288	0.0339	1.0000e-003	0.0349		122.0252	122.0252	5.6800e-003		122.1673

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.14 10c - Mill Creek Campground - Replace Water - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3414	3.2005	4.2659	0.0126		0.1153	0.1153		0.1061	0.1061		1,219.3060	1,219.3060	0.3944		1,229.1647
Total	0.3414	3.2005	4.2659	0.0126		0.1153	0.1153		0.1061	0.1061		1,219.3060	1,219.3060	0.3944		1,229.1647

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1100e-003	0.0727	0.0161	3.1000e-004	9.5900e-003	2.6000e-004	9.8400e-003	2.5500e-003	2.5000e-004	2.7900e-003		32.9760	32.9760	7.7000e-004		32.9953
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0560	0.0293	0.3419	7.4000e-004	0.0766	6.5000e-004	0.0773	0.0203	6.0000e-004	0.0209		73.2151	73.2151	3.4100e-003		73.3004
Total	0.0582	0.1020	0.3580	1.0500e-003	0.0862	9.1000e-004	0.0871	0.0229	8.5000e-004	0.0237		106.1911	106.1911	4.1800e-003		106.2957

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.14 10c - Mill Creek Campground - Replace Water - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3414	3.2005	4.2659	0.0126		0.1153	0.1153		0.1061	0.1061	0.0000	1,219.3060	1,219.3060	0.3944		1,229.1647
Total	0.3414	3.2005	4.2659	0.0126		0.1153	0.1153		0.1061	0.1061	0.0000	1,219.3060	1,219.3060	0.3944		1,229.1647

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1100e-003	0.0727	0.0161	3.1000e-004	9.5900e-003	2.6000e-004	9.8400e-003	2.5500e-003	2.5000e-004	2.7900e-003		32.9760	32.9760	7.7000e-004		32.9953
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0560	0.0293	0.3419	7.4000e-004	0.0766	6.5000e-004	0.0773	0.0203	6.0000e-004	0.0209		73.2151	73.2151	3.4100e-003		73.3004
Total	0.0582	0.1020	0.3580	1.0500e-003	0.0862	9.1000e-004	0.0871	0.0229	8.5000e-004	0.0237		106.1911	106.1911	4.1800e-003		106.2957

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.15 8a - Lower Bucks Campground - Add Capacity - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0126	0.0000	0.0126	1.3600e-003	0.0000	1.3600e-003			0.0000			0.0000
Off-Road	3.9929	32.5333	36.3324	0.0962		1.2766	1.2766		1.1829	1.1829		9,282.8788	9,282.8788	2.8162		9,353.2843
Total	3.9929	32.5333	36.3324	0.0962	0.0126	1.2766	1.2893	1.3600e-003	1.1829	1.1843		9,282.8788	9,282.8788	2.8162		9,353.2843

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3100e-003	0.1443	0.0336	6.5000e-004	0.0197	4.9000e-004	0.0202	5.2400e-003	4.6000e-004	5.7000e-003		68.3409	68.3409	1.5700e-003		68.3802
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3291	0.1679	1.9782	4.5000e-003	0.4854	3.9500e-003	0.4893	0.1287	3.6300e-003	0.1324		447.4153	447.4153	0.0192		447.8955
Total	0.3334	0.3122	2.0118	5.1500e-003	0.5051	4.4400e-003	0.5095	0.1340	4.0900e-003	0.1381		515.7563	515.7563	0.0208		516.2757

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.15 8a - Lower Bucks Campground - Add Capacity - 2026**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0126	0.0000	0.0126	1.3600e-003	0.0000	1.3600e-003			0.0000			0.0000
Off-Road	3.9929	32.5333	36.3324	0.0962		1.2766	1.2766		1.1829	1.1829	0.0000	9,282.8788	9,282.8788	2.8162		9,353.2843
Total	3.9929	32.5333	36.3324	0.0962	0.0126	1.2766	1.2893	1.3600e-003	1.1829	1.1843	0.0000	9,282.8788	9,282.8788	2.8162		9,353.2843

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3100e-003	0.1443	0.0336	6.5000e-004	0.0197	4.9000e-004	0.0202	5.2400e-003	4.6000e-004	5.7000e-003		68.3409	68.3409	1.5700e-003		68.3802
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.3291	0.1679	1.9782	4.5000e-003	0.4854	3.9500e-003	0.4893	0.1287	3.6300e-003	0.1324		447.4153	447.4153	0.0192		447.8955
Total	0.3334	0.3122	2.0118	5.1500e-003	0.5051	4.4400e-003	0.5095	0.1340	4.0900e-003	0.1381		515.7563	515.7563	0.0208		516.2757

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.16 8b - Lower Bucks Campground - Add Electrical - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.9000e-003	0.0969	0.0226	4.3000e-004	0.0102	3.3000e-004	0.0106	2.7900e-003	3.1000e-004	3.1000e-003		45.9251	45.9251	1.0600e-003		45.9515
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0346	0.0177	0.2082	4.7000e-004	0.0511	4.2000e-004	0.0515	0.0136	3.8000e-004	0.0139		47.0964	47.0964	2.0200e-003		47.1469
Total	0.0375	0.1146	0.2308	9.0000e-004	0.0613	7.5000e-004	0.0621	0.0163	6.9000e-004	0.0170		93.0214	93.0214	3.0800e-003		93.0984

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.16 8b - Lower Bucks Campground - Add Electrical - 2026**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.9000e-003	0.0969	0.0226	4.3000e-004	0.0102	3.3000e-004	0.0106	2.7900e-003	3.1000e-004	3.1000e-003		45.9251	45.9251	1.0600e-003		45.9515
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0346	0.0177	0.2082	4.7000e-004	0.0511	4.2000e-004	0.0515	0.0136	3.8000e-004	0.0139		47.0964	47.0964	2.0200e-003		47.1469
Total	0.0375	0.1146	0.2308	9.0000e-004	0.0613	7.5000e-004	0.0621	0.0163	6.9000e-004	0.0170		93.0214	93.0214	3.0800e-003		93.0984

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.17 5a - Haskins Valley Campground - Food Storage - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0486	0.0240	0.2872	6.9000e-004	0.0766	5.9000e-004	0.0772	0.0203	5.4000e-004	0.0209		68.3027	68.3027	2.7200e-003		68.3706
Total	0.0486	0.0240	0.2872	6.9000e-004	0.0766	5.9000e-004	0.0772	0.0203	5.4000e-004	0.0209		68.3027	68.3027	2.7200e-003		68.3706

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.17 5a - Haskins Valley Campground - Food Storage - 2027**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0486	0.0240	0.2872	6.9000e-004	0.0766	5.9000e-004	0.0772	0.0203	5.4000e-004	0.0209		68.3027	68.3027	2.7200e-003		68.3706
Total	0.0486	0.0240	0.2872	6.9000e-004	0.0766	5.9000e-004	0.0772	0.0203	5.4000e-004	0.0209		68.3027	68.3027	2.7200e-003		68.3706

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.18 5b - Haskins Valley Campground - Improvements - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1487	7.7525	9.5739	0.0313		0.2787	0.2787		0.2572	0.2572		3,013.272 2	3,013.272 2	0.9670		3,037.446 7
Total	1.1487	7.7525	9.5739	0.0313		0.2787	0.2787		0.2572	0.2572		3,013.272 2	3,013.272 2	0.9670		3,037.446 7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4200e-003	0.0461	0.0113	2.2000e-004	5.5600e-003	1.5000e-004	5.7100e-003	1.5000e-003	1.4000e-004	1.6400e-003		22.8429	22.8429	5.1000e-004		22.8556
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1135	0.0561	0.6702	1.6000e-003	0.1788	1.3800e-003	0.1802	0.0474	1.2700e-003	0.0487		159.3729	159.3729	6.3400e-003		159.5314
Total	0.1149	0.1022	0.6815	1.8200e-003	0.1844	1.5300e-003	0.1859	0.0489	1.4100e-003	0.0503		182.2158	182.2158	6.8500e-003		182.3871

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.18 5b - Haskins Valley Campground - Improvements - 2027**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1487	7.7525	9.5739	0.0313		0.2787	0.2787		0.2572	0.2572	0.0000	3,013.272 2	3,013.272 2	0.9670		3,037.446 7
Total	1.1487	7.7525	9.5739	0.0313		0.2787	0.2787		0.2572	0.2572	0.0000	3,013.272 2	3,013.272 2	0.9670		3,037.446 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4200e-003	0.0461	0.0113	2.2000e-004	5.5600e-003	1.5000e-004	5.7100e-003	1.5000e-003	1.4000e-004	1.6400e-003		22.8429	22.8429	5.1000e-004		22.8556
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1135	0.0561	0.6702	1.6000e-003	0.1788	1.3800e-003	0.1802	0.0474	1.2700e-003	0.0487		159.3729	159.3729	6.3400e-003		159.5314
Total	0.1149	0.1022	0.6815	1.8200e-003	0.1844	1.5300e-003	0.1859	0.0489	1.4100e-003	0.0503		182.2158	182.2158	6.8500e-003		182.3871

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.19 5e - Haskins Valley Campground - Add Electrical - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995		604.1117	604.1117	0.1954		608.9963
Total	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995		604.1117	604.1117	0.1954		608.9963

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.0300e-003	0.0659	0.0161	3.1000e-004	8.8600e-003	2.1000e-004	9.0700e-003	2.3700e-003	2.0000e-004	2.5700e-003		32.6327	32.6327	7.3000e-004		32.6509
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0486	0.0240	0.2872	6.9000e-004	0.0766	5.9000e-004	0.0772	0.0203	5.4000e-004	0.0209		68.3027	68.3027	2.7200e-003		68.3706
Total	0.0507	0.0899	0.3033	1.0000e-003	0.0855	8.0000e-004	0.0863	0.0227	7.4000e-004	0.0234		100.9354	100.9354	3.4500e-003		101.0215

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.19 5e - Haskins Valley Campground - Add Electrical - 2027**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995	0.0000	604.1117	604.1117	0.1954		608.9963
Total	0.2643	2.6702	4.4593	6.2400e-003		0.1082	0.1082		0.0995	0.0995	0.0000	604.1117	604.1117	0.1954		608.9963

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.0300e-003	0.0659	0.0161	3.1000e-004	8.8600e-003	2.1000e-004	9.0700e-003	2.3700e-003	2.0000e-004	2.5700e-003		32.6327	32.6327	7.3000e-004		32.6509
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0486	0.0240	0.2872	6.9000e-004	0.0766	5.9000e-004	0.0772	0.0203	5.4000e-004	0.0209		68.3027	68.3027	2.7200e-003		68.3706
Total	0.0507	0.0899	0.3033	1.0000e-003	0.0855	8.0000e-004	0.0863	0.0227	7.4000e-004	0.0234		100.9354	100.9354	3.4500e-003		101.0215

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.20 9a - Lower Bucks Day Use - Convert Campsites - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	1.0769	7.6715	10.0510	0.0287		0.2890	0.2890		0.2735	0.2735		2,761.5147	2,761.5147	0.7147		2,779.3810
Total	1.0769	7.6715	10.0510	0.0287	0.1061	0.2890	0.3951	0.0115	0.2735	0.2850		2,761.5147	2,761.5147	0.7147		2,779.3810

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0345	1.1040	0.2725	3.2500e-003	0.0848	1.8400e-003	0.0866	0.0243	1.7600e-003	0.0261		341.8553	341.8553	0.0121		342.1565
Worker	0.0405	0.0200	0.2394	5.7000e-004	0.0639	4.9000e-004	0.0644	0.0169	4.5000e-004	0.0174		56.9189	56.9189	2.2600e-003		56.9755
Total	0.0750	1.1240	0.5118	3.8200e-003	0.1487	2.3300e-003	0.1510	0.0413	2.2100e-003	0.0435		398.7742	398.7742	0.0143		399.1320

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.20 9a - Lower Bucks Day Use - Convert Campsites - 2027**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	1.0769	7.6715	10.0510	0.0287		0.2890	0.2890		0.2735	0.2735	0.0000	2,761.5147	2,761.5147	0.7147		2,779.3810
Total	1.0769	7.6715	10.0510	0.0287	0.1061	0.2890	0.3951	0.0115	0.2735	0.2850	0.0000	2,761.5147	2,761.5147	0.7147		2,779.3810

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0345	1.1040	0.2725	3.2500e-003	0.0848	1.8400e-003	0.0866	0.0243	1.7600e-003	0.0261		341.8553	341.8553	0.0121		342.1565
Worker	0.0405	0.0200	0.2394	5.7000e-004	0.0639	4.9000e-004	0.0644	0.0169	4.5000e-004	0.0174		56.9189	56.9189	2.2600e-003		56.9755
Total	0.0750	1.1240	0.5118	3.8200e-003	0.1487	2.3300e-003	0.1510	0.0413	2.2100e-003	0.0435		398.7742	398.7742	0.0143		399.1320

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.21 5d - Haskins Valley Campground - Add Sites - 2028**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0663	0.0000	0.0663	7.1600e-003	0.0000	7.1600e-003			0.0000			0.0000
Off-Road	1.1487	7.7525	9.5739	0.0313		0.2787	0.2787		0.2572	0.2572		3,013.272 2	3,013.272 2	0.9670		3,037.446 7
Total	1.1487	7.7525	9.5739	0.0313	0.0663	0.2787	0.3450	7.1600e-003	0.2572	0.2643		3,013.272 2	3,013.272 2	0.9670		3,037.446 7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7500e-003	0.0554	0.0141	2.7000e-004	8.0500e-003	1.7000e-004	8.2200e-003	2.1500e-003	1.6000e-004	2.3100e-003		28.4107	28.4107	6.2000e-004		28.4262
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1054	0.0504	0.6161	1.5500e-003	0.1788	1.2800e-003	0.1801	0.0474	1.1800e-003	0.0486		154.4188	154.4188	5.6900e-003		154.5610
Total	0.1072	0.1058	0.6302	1.8200e-003	0.1869	1.4500e-003	0.1883	0.0496	1.3400e-003	0.0509		182.8295	182.8295	6.3100e-003		182.9872

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.21 5d - Haskins Valley Campground - Add Sites - 2028**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0663	0.0000	0.0663	7.1600e-003	0.0000	7.1600e-003			0.0000			0.0000
Off-Road	1.1487	7.7525	9.5739	0.0313		0.2787	0.2787		0.2572	0.2572	0.0000	3,013.272 2	3,013.272 2	0.9670		3,037.446 7
Total	1.1487	7.7525	9.5739	0.0313	0.0663	0.2787	0.3450	7.1600e-003	0.2572	0.2643	0.0000	3,013.272 2	3,013.272 2	0.9670		3,037.446 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7500e-003	0.0554	0.0141	2.7000e-004	8.0500e-003	1.7000e-004	8.2200e-003	2.1500e-003	1.6000e-004	2.3100e-003		28.4107	28.4107	6.2000e-004		28.4262
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1054	0.0504	0.6161	1.5500e-003	0.1788	1.2800e-003	0.1801	0.0474	1.1800e-003	0.0486		154.4188	154.4188	5.6900e-003		154.5610
Total	0.1072	0.1058	0.6302	1.8200e-003	0.1869	1.4500e-003	0.1883	0.0496	1.3400e-003	0.0509		182.8295	182.8295	6.3100e-003		182.9872

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.22 9b - Lower Bucks Day Use - Reconstruct - 2028**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	1.0769	7.6715	10.0510	0.0287		0.2890	0.2890		0.2735	0.2735		2,761.5147	2,761.5147	0.7147		2,779.3810
Total	1.0769	7.6715	10.0510	0.0287	0.1061	0.2890	0.3951	0.0115	0.2735	0.2850		2,761.5147	2,761.5147	0.7147		2,779.3810

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0328	1.0799	0.2591	3.2400e-003	0.0848	1.7100e-003	0.0865	0.0243	1.6400e-003	0.0260		340.2406	340.2406	0.0115		340.5273
Worker	0.0376	0.0180	0.2200	5.5000e-004	0.0639	4.6000e-004	0.0643	0.0169	4.2000e-004	0.0174		55.1496	55.1496	2.0300e-003		55.2004
Total	0.0705	1.0979	0.4791	3.7900e-003	0.1486	2.1700e-003	0.1508	0.0413	2.0600e-003	0.0433		395.3902	395.3902	0.0135		395.7276

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.22 9b - Lower Bucks Day Use - Reconstruct - 2028**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	1.0769	7.6715	10.0510	0.0287		0.2890	0.2890		0.2735	0.2735	0.0000	2,761.5147	2,761.5147	0.7147		2,779.3810
Total	1.0769	7.6715	10.0510	0.0287	0.1061	0.2890	0.3951	0.0115	0.2735	0.2850	0.0000	2,761.5147	2,761.5147	0.7147		2,779.3810

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0328	1.0799	0.2591	3.2400e-003	0.0848	1.7100e-003	0.0865	0.0243	1.6400e-003	0.0260		340.2406	340.2406	0.0115		340.5273
Worker	0.0376	0.0180	0.2200	5.5000e-004	0.0639	4.6000e-004	0.0643	0.0169	4.2000e-004	0.0174		55.1496	55.1496	2.0300e-003		55.2004
Total	0.0705	1.0979	0.4791	3.7900e-003	0.1486	2.1700e-003	0.1508	0.0413	2.0600e-003	0.0433		395.3902	395.3902	0.0135		395.7276

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.23 6a - Hutchins Group Campground - Reconstruct - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.5800e-003	0.0000	7.5800e-003	8.2000e-004	0.0000	8.2000e-004			0.0000			0.0000
Off-Road	2.2541	18.1392	22.3987	0.0612		0.7007	0.7007		0.6531	0.6531		5,891.8453	5,891.8453	1.7195		5,934.8326
Total	2.2541	18.1392	22.3987	0.0612	7.5800e-003	0.7007	0.7083	8.2000e-004	0.6531	0.6539		5,891.8453	5,891.8453	1.7195		5,934.8326

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.9000e-004	0.0183	4.8500e-003	9.0000e-005	2.8500e-003	5.0000e-005	2.9000e-003	7.6000e-004	5.0000e-005	8.1000e-004		9.6937	9.6937	2.1000e-004		9.6990
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1779	0.0833	1.0432	2.8000e-003	0.3321	2.2000e-003	0.3343	0.0881	2.0200e-003	0.0901		278.4339	278.4339	9.3300e-003		278.6673
Total	0.1785	0.1016	1.0481	2.8900e-003	0.3350	2.2500e-003	0.3372	0.0888	2.0700e-003	0.0909		288.1277	288.1277	9.5400e-003		288.3662

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.23 6a - Hutchins Group Campground - Reconstruct - 2029**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.5800e-003	0.0000	7.5800e-003	8.2000e-004	0.0000	8.2000e-004			0.0000			0.0000
Off-Road	2.2541	18.1392	22.3987	0.0612		0.7007	0.7007		0.6531	0.6531	0.0000	5,891.8453	5,891.8453	1.7195		5,934.8326
Total	2.2541	18.1392	22.3987	0.0612	7.5800e-003	0.7007	0.7083	8.2000e-004	0.6531	0.6539	0.0000	5,891.8453	5,891.8453	1.7195		5,934.8326

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.9000e-004	0.0183	4.8500e-003	9.0000e-005	2.8500e-003	5.0000e-005	2.9000e-003	7.6000e-004	5.0000e-005	8.1000e-004		9.6937	9.6937	2.1000e-004		9.6990
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1779	0.0833	1.0432	2.8000e-003	0.3321	2.2000e-003	0.3343	0.0881	2.0200e-003	0.0901		278.4339	278.4339	9.3300e-003		278.6673
Total	0.1785	0.1016	1.0481	2.8900e-003	0.3350	2.2500e-003	0.3372	0.0888	2.0700e-003	0.0909		288.1277	288.1277	9.5400e-003		288.3662

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.24 6b - Hutchins Group Campground - Trail - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Total					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0684	0.0320	0.4012	1.0800e-003	0.1277	8.5000e-004	0.1286	0.0339	7.8000e-004	0.0347		107.0900	107.0900	3.5900e-003		107.1797
Total	0.0684	0.0320	0.4012	1.0800e-003	0.1277	8.5000e-004	0.1286	0.0339	7.8000e-004	0.0347		107.0900	107.0900	3.5900e-003		107.1797

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.24 6b - Hutchins Group Campground - Trail - 2029**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Total					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0684	0.0320	0.4012	1.0800e-003	0.1277	8.5000e-004	0.1286	0.0339	7.8000e-004	0.0347		107.0900	107.0900	3.5900e-003		107.1797
Total	0.0684	0.0320	0.4012	1.0800e-003	0.1277	8.5000e-004	0.1286	0.0339	7.8000e-004	0.0347		107.0900	107.0900	3.5900e-003		107.1797

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.25 2 - Bucks Lake Inlet Parking signage - 2030**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2093	4.4407	9.8826	0.0296		0.1219	0.1219		0.1219	0.1219		3,186.3367	3,186.3367	0.1070		3,189.0115
Total	1.2093	4.4407	9.8826	0.0296		0.1219	0.1219		0.1219	0.1219		3,186.3367	3,186.3367	0.1070		3,189.0115

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.8200e-003	0.2057	0.0566	1.0700e-003	0.0454	5.7000e-004	0.0460	0.0118	5.5000e-004	0.0124		112.6189	112.6189	2.3800e-003		112.6784
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0628	0.0286	0.3695	1.0500e-003	0.1277	7.8000e-004	0.1285	0.0339	7.2000e-004	0.0346		104.2195	104.2195	3.2000e-003		104.2996
Total	0.0696	0.2344	0.4261	2.1200e-003	0.1731	1.3500e-003	0.1745	0.0457	1.2700e-003	0.0470		216.8384	216.8384	5.5800e-003		216.9780

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.25 2 - Bucks Lake Inlet Parking signage - 2030**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2093	4.4407	9.8826	0.0296		0.1219	0.1219		0.1219	0.1219	0.0000	3,186.3367	3,186.3367	0.1070		3,189.0115
Total	1.2093	4.4407	9.8826	0.0296		0.1219	0.1219		0.1219	0.1219	0.0000	3,186.3367	3,186.3367	0.1070		3,189.0115

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.8200e-003	0.2057	0.0566	1.0700e-003	0.0454	5.7000e-004	0.0460	0.0118	5.5000e-004	0.0124		112.6189	112.6189	2.3800e-003		112.6784
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0628	0.0286	0.3695	1.0500e-003	0.1277	7.8000e-004	0.1285	0.0339	7.2000e-004	0.0346		104.2195	104.2195	3.2000e-003		104.2996
Total	0.0696	0.2344	0.4261	2.1200e-003	0.1731	1.3500e-003	0.1745	0.0457	1.2700e-003	0.0470		216.8384	216.8384	5.5800e-003		216.9780

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.26 13a - West End Cove Day Use - Trail - 2030**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0482	0.0000	0.0482	5.2000e-003	0.0000	5.2000e-003			0.0000			0.0000
Off-Road	1.2214	5.7295	12.4518	0.0297		0.1350	0.1350		0.1350	0.1350		3,056.0367	3,056.0367	0.1082		3,058.7424
Total	1.2214	5.7295	12.4518	0.0297	0.0482	0.1350	0.1832	5.2000e-003	0.1350	0.1402		3,056.0367	3,056.0367	0.1082		3,058.7424

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3400e-003	0.1309	0.0360	6.8000e-004	0.0222	3.6000e-004	0.0225	5.8700e-003	3.5000e-004	6.2200e-003		71.6666	71.6666	1.5100e-003		71.7045
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1633	0.0745	0.9608	2.7200e-003	0.3321	2.0400e-003	0.3341	0.0881	1.8800e-003	0.0900		270.9706	270.9706	8.3300e-003		271.1790
Total	0.1676	0.2054	0.9967	3.4000e-003	0.3543	2.4000e-003	0.3567	0.0939	2.2300e-003	0.0962		342.6372	342.6372	9.8400e-003		342.8834

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.26 13a - West End Cove Day Use - Trail - 2030**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0482	0.0000	0.0482	5.2000e-003	0.0000	5.2000e-003			0.0000			0.0000
Off-Road	1.2214	5.7295	12.4518	0.0297		0.1350	0.1350		0.1350	0.1350	0.0000	3,056.0367	3,056.0367	0.1082		3,058.7424
Total	1.2214	5.7295	12.4518	0.0297	0.0482	0.1350	0.1832	5.2000e-003	0.1350	0.1402	0.0000	3,056.0367	3,056.0367	0.1082		3,058.7424

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3400e-003	0.1309	0.0360	6.8000e-004	0.0222	3.6000e-004	0.0225	5.8700e-003	3.5000e-004	6.2200e-003		71.6666	71.6666	1.5100e-003		71.7045
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1633	0.0745	0.9608	2.7200e-003	0.3321	2.0400e-003	0.3341	0.0881	1.8800e-003	0.0900		270.9706	270.9706	8.3300e-003		271.1790
Total	0.1676	0.2054	0.9967	3.4000e-003	0.3543	2.4000e-003	0.3567	0.0939	2.2300e-003	0.0962		342.6372	342.6372	9.8400e-003		342.8834

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.27 14a - Bucks Boat-In Campground - Demo - 2031**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1951	1.8034	3.6354	6.5800e-003		0.0373	0.0373		0.0373	0.0373		623.0346	623.0346	0.0175		623.4731
Total	0.1951	1.8034	3.6354	6.5800e-003		0.0373	0.0373		0.0373	0.0373		623.0346	623.0346	0.0175		623.4731

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0227	0.0101	0.1354	4.1000e-004	0.0511	2.9000e-004	0.0514	0.0136	2.7000e-004	0.0138		40.6552	40.6552	1.1300e-003		40.6835
Total	0.0227	0.0101	0.1354	4.1000e-004	0.0511	2.9000e-004	0.0514	0.0136	2.7000e-004	0.0138		40.6552	40.6552	1.1300e-003		40.6835

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.27 14a - Bucks Boat-In Campground - Demo - 2031**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1951	1.8034	3.6354	6.5800e-003		0.0373	0.0373		0.0373	0.0373	0.0000	623.0346	623.0346	0.0175		623.4731
Total	0.1951	1.8034	3.6354	6.5800e-003		0.0373	0.0373		0.0373	0.0373	0.0000	623.0346	623.0346	0.0175		623.4731

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0227	0.0101	0.1354	4.1000e-004	0.0511	2.9000e-004	0.0514	0.0136	2.7000e-004	0.0138		40.6552	40.6552	1.1300e-003		40.6835
Total	0.0227	0.0101	0.1354	4.1000e-004	0.0511	2.9000e-004	0.0514	0.0136	2.7000e-004	0.0138		40.6552	40.6552	1.1300e-003		40.6835

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.28 14b - Bucks Boat-In Campground - Construct Sites - 2031**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0482	0.0000	0.0482	5.2000e-003	0.0000	5.2000e-003			0.0000			0.0000
Off-Road	0.4271	3.2162	6.9217	0.0119		0.0604	0.0604		0.0604	0.0604		1,130.7035	1,130.7035	0.0383		1,131.6602
Total	0.4271	3.2162	6.9217	0.0119	0.0482	0.0604	0.1086	5.2000e-003	0.0604	0.0656		1,130.7035	1,130.7035	0.0383		1,131.6602

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2300e-003	0.0363	0.0103	1.9000e-004	6.0000e-003	1.0000e-004	6.1000e-003	1.6000e-003	9.0000e-005	1.6900e-003		20.3934	20.3934	4.2000e-004		20.4040
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1019	0.0456	0.6091	1.8400e-003	0.2299	1.3100e-003	0.2312	0.0610	1.2000e-003	0.0622		182.9484	182.9484	5.1000e-003		183.0759
Total	0.1032	0.0818	0.6194	2.0300e-003	0.2359	1.4100e-003	0.2373	0.0626	1.2900e-003	0.0639		203.3418	203.3418	5.5200e-003		203.4799

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.28 14b - Bucks Boat-In Campground - Construct Sites - 2031**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0482	0.0000	0.0482	5.2000e-003	0.0000	5.2000e-003			0.0000			0.0000
Off-Road	0.4271	3.2162	6.9217	0.0119		0.0604	0.0604		0.0604	0.0604	0.0000	1,130.7035	1,130.7035	0.0383		1,131.6602
Total	0.4271	3.2162	6.9217	0.0119	0.0482	0.0604	0.1086	5.2000e-003	0.0604	0.0656	0.0000	1,130.7035	1,130.7035	0.0383		1,131.6602

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2300e-003	0.0363	0.0103	1.9000e-004	6.0000e-003	1.0000e-004	6.1000e-003	1.6000e-003	9.0000e-005	1.6900e-003		20.3934	20.3934	4.2000e-004		20.4040
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1019	0.0456	0.6091	1.8400e-003	0.2299	1.3100e-003	0.2312	0.0610	1.2000e-003	0.0622		182.9484	182.9484	5.1000e-003		183.0759
Total	0.1032	0.0818	0.6194	2.0300e-003	0.2359	1.4100e-003	0.2373	0.0626	1.2900e-003	0.0639		203.3418	203.3418	5.5200e-003		203.4799

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.29 14c - Bucks Boat-In Campground - Fuel Treatment - 2031**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0453	0.0203	0.2707	8.2000e-004	0.1022	5.8000e-004	0.1028	0.0271	5.4000e-004	0.0276		81.3104	81.3104	2.2700e-003		81.3670
Total	0.0453	0.0203	0.2707	8.2000e-004	0.1022	5.8000e-004	0.1028	0.0271	5.4000e-004	0.0276		81.3104	81.3104	2.2700e-003		81.3670

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0453	0.0203	0.2707	8.2000e-004	0.1022	5.8000e-004	0.1028	0.0271	5.4000e-004	0.0276		81.3104	81.3104	2.2700e-003		81.3670
Total	0.0453	0.0203	0.2707	8.2000e-004	0.1022	5.8000e-004	0.1028	0.0271	5.4000e-004	0.0276		81.3104	81.3104	2.2700e-003		81.3670

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.30 7a - Indian Rock Day Use - Reconstruct - 2032**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0331	0.0000	0.0331	3.5800e-003	0.0000	3.5800e-003			0.0000			0.0000
Off-Road	2.7278	10.8327	25.6231	0.0658		0.3306	0.3306		0.3306	0.3306		6,734.5066	6,734.5066	0.2420		6,740.5556
Total	2.7278	10.8327	25.6231	0.0658	0.0331	0.3306	0.3637	3.5800e-003	0.3306	0.3342		6,734.5066	6,734.5066	0.2420		6,740.5556

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.3500e-003	0.0967	0.0282	5.3000e-004	0.0161	2.5000e-004	0.0163	4.2900e-003	2.4000e-004	4.5200e-003		55.8791	55.8791	1.1500e-003		55.9077
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1546	0.0676	0.9364	2.9900e-003	0.3832	2.0300e-003	0.3852	0.1016	1.8600e-003	0.1035		298.0492	298.0492	7.5600e-003		298.2383
Total	0.1579	0.1643	0.9647	3.5200e-003	0.3993	2.2800e-003	0.4016	0.1059	2.1000e-003	0.1080		353.9283	353.9283	8.7100e-003		354.1460

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.30 7a - Indian Rock Day Use - Reconstruct - 2032**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0331	0.0000	0.0331	3.5800e-003	0.0000	3.5800e-003			0.0000			0.0000
Off-Road	2.7278	10.8327	25.6231	0.0658		0.3306	0.3306		0.3306	0.3306	0.0000	6,734.5065	6,734.5065	0.2420		6,740.5556
Total	2.7278	10.8327	25.6231	0.0658	0.0331	0.3306	0.3637	3.5800e-003	0.3306	0.3342	0.0000	6,734.5065	6,734.5065	0.2420		6,740.5556

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.3500e-003	0.0967	0.0282	5.3000e-004	0.0161	2.5000e-004	0.0163	4.2900e-003	2.4000e-004	4.5200e-003		55.8791	55.8791	1.1500e-003		55.9077
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1546	0.0676	0.9364	2.9900e-003	0.3832	2.0300e-003	0.3852	0.1016	1.8600e-003	0.1035		298.0492	298.0492	7.5600e-003		298.2383
Total	0.1579	0.1643	0.9647	3.5200e-003	0.3993	2.2800e-003	0.4016	0.1059	2.1000e-003	0.1080		353.9283	353.9283	8.7100e-003		354.1460

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.31 7b - Indian Rock Day Use - Trails - 2032**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Total					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0515	0.0225	0.3122	1.0000e-003	0.1277	6.8000e-004	0.1284	0.0339	6.2000e-004	0.0345		99.3497	99.3497	2.5200e-003		99.4128
Total	0.0515	0.0225	0.3122	1.0000e-003	0.1277	6.8000e-004	0.1284	0.0339	6.2000e-004	0.0345		99.3497	99.3497	2.5200e-003		99.4128

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.31 7b - Indian Rock Day Use - Trails - 2032**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Total					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0515	0.0225	0.3122	1.0000e-003	0.1277	6.8000e-004	0.1284	0.0339	6.2000e-004	0.0345		99.3497	99.3497	2.5200e-003		99.4128
Total	0.0515	0.0225	0.3122	1.0000e-003	0.1277	6.8000e-004	0.1284	0.0339	6.2000e-004	0.0345		99.3497	99.3497	2.5200e-003		99.4128

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.32 12a - Sundew Campground - Reconstruct - 2034**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4700e-003	0.0000	9.4700e-003	1.0200e-003	0.0000	1.0200e-003			0.0000			0.0000
Off-Road	2.0235	6.8507	15.0401	0.0475		0.2239	0.2239		0.2239	0.2239		5,001.0151	5,001.0151	0.1790		5,005.4905
Total	2.0235	6.8507	15.0401	0.0475	9.4700e-003	0.2239	0.2334	1.0200e-003	0.2239	0.2249		5,001.0151	5,001.0151	0.1790		5,005.4905

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1000e-004	0.0197	6.0300e-003	1.1000e-004	3.5500e-003	5.0000e-005	3.6000e-003	9.4000e-004	4.0000e-005	9.9000e-004		11.8984	11.8984	2.4000e-004		11.9043
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0853	0.0360	0.5334	1.9200e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0700e-003	0.0688		191.0678	191.0678	3.9700e-003		191.1671
Total	0.0860	0.0557	0.5395	2.0300e-003	0.2590	1.2200e-003	0.2602	0.0687	1.1100e-003	0.0698		202.9662	202.9662	4.2100e-003		203.0714

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.32 12a - Sundew Campground - Reconstruct - 2034**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					9.4700e-003	0.0000	9.4700e-003	1.0200e-003	0.0000	1.0200e-003			0.0000			0.0000
Off-Road	2.0235	6.8507	15.0401	0.0475		0.2239	0.2239		0.2239	0.2239	0.0000	5,001.0151	5,001.0151	0.1790		5,005.4905
Total	2.0235	6.8507	15.0401	0.0475	9.4700e-003	0.2239	0.2334	1.0200e-003	0.2239	0.2249	0.0000	5,001.0151	5,001.0151	0.1790		5,005.4905

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.1000e-004	0.0197	6.0300e-003	1.1000e-004	3.5500e-003	5.0000e-005	3.6000e-003	9.4000e-004	4.0000e-005	9.9000e-004		11.8984	11.8984	2.4000e-004		11.9043
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0853	0.0360	0.5334	1.9200e-003	0.2555	1.1700e-003	0.2566	0.0678	1.0700e-003	0.0688		191.0678	191.0678	3.9700e-003		191.1671
Total	0.0860	0.0557	0.5395	2.0300e-003	0.2590	1.2200e-003	0.2602	0.0687	1.1100e-003	0.0698		202.9662	202.9662	4.2100e-003		203.0714

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.33 11a - Sandy Point Day Use - Trail and Parking - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6000e-004	0.0000	2.6000e-004	4.0000e-005	0.0000	4.0000e-005			0.0000			0.0000
Off-Road	0.2818	1.2544	3.7296	6.7900e-003		0.0463	0.0463		0.0463	0.0463		631.3036	631.3036	0.0252		631.9339
Total	0.2818	1.2544	3.7296	6.7900e-003	2.6000e-004	0.0463	0.0465	4.0000e-005	0.0463	0.0463		631.3036	631.3036	0.0252		631.9339

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.6600e-003	0.1833	0.0572	1.0700e-003	0.0338	4.2000e-004	0.0342	8.9700e-003	4.0000e-004	9.3700e-003		112.7226	112.7226	2.2300e-003		112.7784
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0702	0.0296	0.4458	1.7000e-003	0.2299	9.8000e-004	0.2309	0.0610	9.0000e-004	0.0619		169.1469	169.1469	3.1700e-003		169.2262
Total	0.0768	0.2129	0.5030	2.7700e-003	0.2637	1.4000e-003	0.2651	0.0699	1.3000e-003	0.0712		281.8695	281.8695	5.4000e-003		282.0046

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.33 11a - Sandy Point Day Use - Trail and Parking - 2035**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6000e-004	0.0000	2.6000e-004	4.0000e-005	0.0000	4.0000e-005			0.0000			0.0000
Off-Road	0.2818	1.2544	3.7296	6.7900e-003		0.0463	0.0463		0.0463	0.0463	0.0000	631.3036	631.3036	0.0252		631.9339
Total	0.2818	1.2544	3.7296	6.7900e-003	2.6000e-004	0.0463	0.0465	4.0000e-005	0.0463	0.0463	0.0000	631.3036	631.3036	0.0252		631.9339

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.6600e-003	0.1833	0.0572	1.0700e-003	0.0338	4.2000e-004	0.0342	8.9700e-003	4.0000e-004	9.3700e-003		112.7226	112.7226	2.2300e-003		112.7784
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0702	0.0296	0.4458	1.7000e-003	0.2299	9.8000e-004	0.2309	0.0610	9.0000e-004	0.0619		169.1469	169.1469	3.1700e-003		169.2262
Total	0.0768	0.2129	0.5030	2.7700e-003	0.2637	1.4000e-003	0.2651	0.0699	1.3000e-003	0.0712		281.8695	281.8695	5.4000e-003		282.0046

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.34 11b - Sandy Point Day Use - Boat Launch - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.0000e-005	0.0000	8.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.0000			0.0000
Off-Road	2.2189	6.8171	17.5057	0.0533		0.2035	0.2035		0.2035	0.2035		5,559.8017	5,559.8017	0.1935		5,564.6394
Total	2.2189	6.8171	17.5057	0.0533	8.0000e-005	0.2035	0.2035	1.0000e-005	0.2035	0.2035		5,559.8017	5,559.8017	0.1935		5,564.6394

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1200e-003	0.0858	0.0267	5.0000e-004	0.0155	2.0000e-004	0.0157	4.1300e-003	1.9000e-004	4.3200e-003		52.7357	52.7357	1.0400e-003		52.7618
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0779	0.0329	0.4954	1.8800e-003	0.2555	1.0800e-003	0.2566	0.0678	1.0000e-003	0.0687		187.9410	187.9410	3.5300e-003		188.0291
Total	0.0811	0.1186	0.5221	2.3800e-003	0.2710	1.2800e-003	0.2723	0.0719	1.1900e-003	0.0731		240.6767	240.6767	4.5700e-003		240.7909

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.34 11b - Sandy Point Day Use - Boat Launch - 2035**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.0000e-005	0.0000	8.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.0000			0.0000
Off-Road	2.2189	6.8171	17.5057	0.0533		0.2035	0.2035		0.2035	0.2035	0.0000	5,559.8017	5,559.8017	0.1935		5,564.6394
Total	2.2189	6.8171	17.5057	0.0533	8.0000e-005	0.2035	0.2035	1.0000e-005	0.2035	0.2035	0.0000	5,559.8017	5,559.8017	0.1935		5,564.6394

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1200e-003	0.0858	0.0267	5.0000e-004	0.0155	2.0000e-004	0.0157	4.1300e-003	1.9000e-004	4.3200e-003		52.7357	52.7357	1.0400e-003		52.7618
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0779	0.0329	0.4954	1.8800e-003	0.2555	1.0800e-003	0.2566	0.0678	1.0000e-003	0.0687		187.9410	187.9410	3.5300e-003		188.0291
Total	0.0811	0.1186	0.5221	2.3800e-003	0.2710	1.2800e-003	0.2723	0.0719	1.1900e-003	0.0731		240.6767	240.6767	4.5700e-003		240.7909

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.35 11c - Sandy Point Day Use - Reconstruct - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.5800e-003	0.0000	7.5800e-003	8.2000e-004	0.0000	8.2000e-004			0.0000			0.0000
Off-Road	2.0215	6.5437	17.7578	0.0525		0.1684	0.1684		0.1684	0.1684		5,468.2910	5,468.2910	0.1774		5,472.7262
Total	2.0215	6.5437	17.7578	0.0525	7.5800e-003	0.1684	0.1760	8.2000e-004	0.1684	0.1692		5,468.2910	5,468.2910	0.1774		5,472.7262

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1200e-003	0.0309	9.6300e-003	1.8000e-004	5.7000e-003	7.0000e-005	5.7700e-003	1.5100e-003	7.0000e-005	1.5800e-003		18.9849	18.9849	3.8000e-004		18.9943
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0779	0.0329	0.4954	1.8800e-003	0.2555	1.0800e-003	0.2566	0.0678	1.0000e-003	0.0687		187.9410	187.9410	3.5300e-003		188.0291
Total	0.0791	0.0637	0.5050	2.0600e-003	0.2612	1.1500e-003	0.2623	0.0693	1.0700e-003	0.0703		206.9258	206.9258	3.9100e-003		207.0234

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.35 11c - Sandy Point Day Use - Reconstruct - 2035**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.5800e-003	0.0000	7.5800e-003	8.2000e-004	0.0000	8.2000e-004			0.0000			0.0000
Off-Road	2.0215	6.5437	17.7578	0.0525		0.1684	0.1684		0.1684	0.1684	0.0000	5,468.2910	5,468.2910	0.1774		5,472.7262
Total	2.0215	6.5437	17.7578	0.0525	7.5800e-003	0.1684	0.1760	8.2000e-004	0.1684	0.1692	0.0000	5,468.2910	5,468.2910	0.1774		5,472.7262

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.1200e-003	0.0309	9.6300e-003	1.8000e-004	5.7000e-003	7.0000e-005	5.7700e-003	1.5100e-003	7.0000e-005	1.5800e-003		18.9849	18.9849	3.8000e-004		18.9943
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0779	0.0329	0.4954	1.8800e-003	0.2555	1.0800e-003	0.2566	0.0678	1.0000e-003	0.0687		187.9410	187.9410	3.5300e-003		188.0291
Total	0.0791	0.0637	0.5050	2.0600e-003	0.2612	1.1500e-003	0.2623	0.0693	1.0700e-003	0.0703		206.9258	206.9258	3.9100e-003		207.0234

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.36 3d - Grizzly Forebay Campground - Reconstruct - 2036**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0189	0.0000	0.0189	2.0400e-003	0.0000	2.0400e-003			0.0000			0.0000
Off-Road	0.9007	4.6685	11.8036	0.0255		0.0983	0.0983		0.0983	0.0983		2,406.0400	2,406.0400	0.0804		2,408.0504
Total	0.9007	4.6685	11.8036	0.0255	0.0189	0.0983	0.1173	2.0400e-003	0.0983	0.1004		2,406.0400	2,406.0400	0.0804		2,408.0504

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.3000e-004	0.0257	8.0200e-003	1.5000e-004	4.7900e-003	6.0000e-005	4.8400e-003	1.2700e-003	6.0000e-005	1.3300e-003		15.8207	15.8207	3.1000e-004		15.8285
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0624	0.0263	0.3963	1.5100e-003	0.2044	8.7000e-004	0.2052	0.0542	8.0000e-004	0.0550		150.3528	150.3528	2.8200e-003		150.4233
Total	0.0633	0.0520	0.4043	1.6600e-003	0.2092	9.3000e-004	0.2101	0.0555	8.6000e-004	0.0563		166.1735	166.1735	3.1300e-003		166.2519

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.36 3d - Grizzly Forebay Campground - Reconstruct - 2036**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0189	0.0000	0.0189	2.0400e-003	0.0000	2.0400e-003			0.0000			0.0000
Off-Road	0.9007	4.6685	11.8036	0.0255		0.0983	0.0983		0.0983	0.0983	0.0000	2,406.0400	2,406.0400	0.0804		2,408.0504
Total	0.9007	4.6685	11.8036	0.0255	0.0189	0.0983	0.1173	2.0400e-003	0.0983	0.1004	0.0000	2,406.0400	2,406.0400	0.0804		2,408.0504

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.3000e-004	0.0257	8.0200e-003	1.5000e-004	4.7900e-003	6.0000e-005	4.8400e-003	1.2700e-003	6.0000e-005	1.3300e-003		15.8207	15.8207	3.1000e-004		15.8285
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0624	0.0263	0.3963	1.5100e-003	0.2044	8.7000e-004	0.2052	0.0542	8.0000e-004	0.0550		150.3528	150.3528	2.8200e-003		150.4233
Total	0.0633	0.0520	0.4043	1.6600e-003	0.2092	9.3000e-004	0.2101	0.0555	8.6000e-004	0.0563		166.1735	166.1735	3.1300e-003		166.2519

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.37 4d - Grizzly Forebay Rec Area - Reconstruct - 2037**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	0.5446	1.7490	4.3482	0.0141		0.0426	0.0426		0.0426	0.0426		1,454.1483	1,454.1483	0.0478		1,455.3430
Total	0.5446	1.7490	4.3482	0.0141	0.1061	0.0426	0.1486	0.0115	0.0426	0.0540		1,454.1483	1,454.1483	0.0478		1,455.3430

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.9300e-003	0.1081	0.0337	6.3000e-004	0.0167	2.5000e-004	0.0169	4.4900e-003	2.4000e-004	4.7300e-003		66.4470	66.4470	1.3100e-003		66.4799
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0624	0.0263	0.3963	1.5100e-003	0.2044	8.7000e-004	0.2052	0.0542	8.0000e-004	0.0550		150.3528	150.3528	2.8200e-003		150.4233
Total	0.0663	0.1344	0.4300	2.1400e-003	0.2210	1.1200e-003	0.2222	0.0587	1.0400e-003	0.0597		216.7998	216.7998	4.1300e-003		216.9032

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.37 4d - Grizzly Forebay Rec Area - Reconstruct - 2037**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	0.5446	1.7490	4.3482	0.0141		0.0426	0.0426		0.0426	0.0426	0.0000	1,454.148 3	1,454.148 3	0.0478		1,455.343 0
Total	0.5446	1.7490	4.3482	0.0141	0.1061	0.0426	0.1486	0.0115	0.0426	0.0540	0.0000	1,454.148 3	1,454.148 3	0.0478		1,455.343 0

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.9300e-003	0.1081	0.0337	6.3000e-004	0.0167	2.5000e-004	0.0169	4.4900e-003	2.4000e-004	4.7300e-003		66.4470	66.4470	1.3100e-003		66.4799
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0624	0.0263	0.3963	1.5100e-003	0.2044	8.7000e-004	0.2052	0.0542	8.0000e-004	0.0550		150.3528	150.3528	2.8200e-003		150.4233
Total	0.0663	0.1344	0.4300	2.1400e-003	0.2210	1.1200e-003	0.2222	0.0587	1.0400e-003	0.0597		216.7998	216.7998	4.1300e-003		216.9032

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.38 13b - West End Cove Day Use - Reconstruct - 2039**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0379	0.0000	0.0379	4.0900e-003	0.0000	4.0900e-003			0.0000			0.0000
Off-Road	2.0215	6.5437	17.7578	0.0525		0.1684	0.1684		0.1684	0.1684		5,468.2910	5,468.2910	0.1774		5,472.7262
Total	2.0215	6.5437	17.7578	0.0525	0.0379	0.1684	0.2063	4.0900e-003	0.1684	0.1725		5,468.2910	5,468.2910	0.1774		5,472.7262

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8700e-003	0.0515	0.0160	3.0000e-004	9.1900e-003	1.2000e-004	9.3100e-003	2.4500e-003	1.1000e-004	2.5600e-003		31.6414	31.6414	6.3000e-004		31.6571
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0779	0.0329	0.4954	1.8800e-003	0.2555	1.0800e-003	0.2566	0.0678	1.0000e-003	0.0687		187.9410	187.9410	3.5300e-003		188.0291
Total	0.0798	0.0843	0.5114	2.1800e-003	0.2647	1.2000e-003	0.2659	0.0702	1.1100e-003	0.0713		219.5824	219.5824	4.1600e-003		219.6862

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.38 13b - West End Cove Day Use - Reconstruct - 2039**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0379	0.0000	0.0379	4.0900e-003	0.0000	4.0900e-003			0.0000			0.0000
Off-Road	2.0215	6.5437	17.7578	0.0525		0.1684	0.1684		0.1684	0.1684	0.0000	5,468.2910	5,468.2910	0.1774		5,472.7262
Total	2.0215	6.5437	17.7578	0.0525	0.0379	0.1684	0.2063	4.0900e-003	0.1684	0.1725	0.0000	5,468.2910	5,468.2910	0.1774		5,472.7262

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.8700e-003	0.0515	0.0160	3.0000e-004	9.1900e-003	1.2000e-004	9.3100e-003	2.4500e-003	1.1000e-004	2.5600e-003		31.6414	31.6414	6.3000e-004		31.6571
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0779	0.0329	0.4954	1.8800e-003	0.2555	1.0800e-003	0.2566	0.0678	1.0000e-003	0.0687		187.9410	187.9410	3.5300e-003		188.0291
Total	0.0798	0.0843	0.5114	2.1800e-003	0.2647	1.2000e-003	0.2659	0.0702	1.1100e-003	0.0713		219.5824	219.5824	4.1600e-003		219.6862

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.39 5c - Haskins Valley Campground - Reconstruct - 2040**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.9100e-003	0.0000	7.9100e-003	8.5000e-004	0.0000	8.5000e-004			0.0000			0.0000
Off-Road	1.9589	7.9119	22.3827	0.0600		0.1426	0.1426		0.1426	0.1426		5,994.179 2	5,994.179 2	0.1710		5,998.454 3
Total	1.9589	7.9119	22.3827	0.0600	7.9100e-003	0.1426	0.1506	8.5000e-004	0.1426	0.1435		5,994.179 2	5,994.179 2	0.1710		5,998.454 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4900e-003	0.0655	0.0214	4.0000e-004	0.0130	1.4000e-004	0.0131	3.4400e-003	1.4000e-004	3.5800e-003		42.5523	42.5523	8.1000e-004		42.5727
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0805	0.0355	0.5880	2.6700e-003	0.3832	1.2400e-003	0.3844	0.1016	1.1400e-003	0.1028		266.7637	266.7637	3.5100e-003		266.8516
Total	0.0830	0.1010	0.6094	3.0700e-003	0.3962	1.3800e-003	0.3975	0.1051	1.2800e-003	0.1063		309.3160	309.3160	4.3200e-003		309.4242

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.39 5c - Haskins Valley Campground - Reconstruct - 2040**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.9100e-003	0.0000	7.9100e-003	8.5000e-004	0.0000	8.5000e-004			0.0000			0.0000
Off-Road	1.9589	7.9119	22.3827	0.0600		0.1426	0.1426		0.1426	0.1426	0.0000	5,994.179 2	5,994.179 2	0.1710		5,998.454 3
Total	1.9589	7.9119	22.3827	0.0600	7.9100e-003	0.1426	0.1506	8.5000e-004	0.1426	0.1435	0.0000	5,994.179 2	5,994.179 2	0.1710		5,998.454 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.4900e-003	0.0655	0.0214	4.0000e-004	0.0130	1.4000e-004	0.0131	3.4400e-003	1.4000e-004	3.5800e-003		42.5523	42.5523	8.1000e-004		42.5727
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0805	0.0355	0.5880	2.6700e-003	0.3832	1.2400e-003	0.3844	0.1016	1.1400e-003	0.1028		266.7637	266.7637	3.5100e-003		266.8516
Total	0.0830	0.1010	0.6094	3.0700e-003	0.3962	1.3800e-003	0.3975	0.1051	1.2800e-003	0.1063		309.3160	309.3160	4.3200e-003		309.4242

4.0 Operational Detail - Mobile

Bucks Creek Hydroelectric Project - Plumas County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Recreational	0.451390	0.047356	0.228647	0.160524	0.049085	0.008369	0.015884	0.026778	0.001925	0.001827	0.005819	0.000749	0.001649

Bucks Creek Hydroelectric Project - Plumas County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Bucks Creek Hydroelectric Project - Plumas County, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Bucks Creek Hydroelectric Project - Plumas County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Bucks Creek Hydroelectric Project - Plumas County, Summer

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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Bucks Creek Hydroelectric Project

Plumas County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	12.50	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	73
Climate Zone	1			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

On-road Fugitive Dust -

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[illegible]

Bucks Creek Hydroelectric Project - Plumas County, Annual

[illegible]

Bucks Creek Hydroelectric Project - Plumas County, Annual

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Bucks Creek Hydroelectric Project - Plumas County, Annual

[illegible]

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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

Bucks Creek Hydroelectric Project - Plumas County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	9.6500e-003	0.1389	0.0750	3.6000e-004	5.8100e-003	2.8900e-003	8.7000e-003	1.5600e-003	2.6700e-003	4.2300e-003	0.0000	33.1897	33.1897	5.0300e-003	0.0000	33.3155
2022	0.0156	0.1463	0.1810	3.2000e-004	4.5100e-003	6.8300e-003	0.0114	1.1400e-003	6.2900e-003	7.4300e-003	0.0000	28.8999	28.8999	7.2400e-003	0.0000	29.0808
2023	0.1018	0.8334	1.0085	2.2800e-003	0.0170	0.0364	0.0534	4.3300e-003	0.0335	0.0378	0.0000	201.1542	201.1542	0.0585	0.0000	202.6169
2024	3.6000e-004	3.3600e-003	2.9500e-003	1.0000e-005	5.5000e-004	4.0000e-005	5.9000e-004	1.5000e-004	4.0000e-005	1.9000e-004	0.0000	1.3193	1.3193	8.0000e-005	0.0000	1.3213
2025	0.1445	1.2428	1.3997	4.0500e-003	0.0455	0.0445	0.0900	0.0119	0.0411	0.0530	0.0000	363.5101	363.5101	0.0841	0.0000	365.6123
2026	0.1308	1.0095	1.3450	3.3200e-003	0.0234	0.0404	0.0639	6.1700e-003	0.0372	0.0434	0.0000	294.1997	294.1997	0.0838	0.0000	296.2949
2027	0.0661	0.4796	0.7284	1.7700e-003	0.0114	0.0192	0.0306	3.0400e-003	0.0176	0.0207	0.0000	156.4274	156.4274	0.0455	0.0000	157.5656
2028	2.9400e-003	0.0196	0.0317	8.0000e-005	4.1000e-004	7.6000e-004	1.1700e-003	1.1000e-004	7.0000e-004	8.1000e-004	0.0000	7.0894	7.0894	2.1500e-003	0.0000	7.1432
2029	0.0136	0.1016	0.1470	3.8000e-004	3.2200e-003	3.8300e-003	7.0400e-003	8.1000e-004	3.5200e-003	4.3300e-003	0.0000	34.0133	34.0133	9.4800e-003	0.0000	34.2504
2030	2.3000e-004	2.0200e-003	2.7500e-003	1.0000e-005	2.1000e-004	2.0000e-005	2.3000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.8370	0.8370	3.0000e-005	0.0000	0.8376
2031	0.0350	0.1188	0.3260	8.4000e-004	4.4100e-003	3.6600e-003	8.0700e-003	1.1700e-003	3.6500e-003	4.8300e-003	0.0000	78.9554	78.9554	2.7900e-003	0.0000	79.0251
2033	0.0139	0.0479	0.1307	3.3000e-004	1.7700e-003	1.4600e-003	3.2300e-003	4.7000e-004	1.4600e-003	1.9300e-003	0.0000	31.5929	31.5929	1.1100e-003	0.0000	31.6207
2034	0.0184	0.0624	0.1724	4.4000e-004	2.2700e-003	1.9400e-003	4.2100e-003	6.0000e-004	1.9400e-003	2.5500e-003	0.0000	41.7792	41.7792	1.4700e-003	0.0000	41.8159
2035	6.2300e-003	0.0193	0.0624	1.6000e-004	9.1000e-004	4.7000e-004	1.3700e-003	2.4000e-004	4.6000e-004	7.1000e-004	0.0000	15.2554	15.2554	4.9000e-004	0.0000	15.2677
2040	0.0351	0.1218	0.2961	1.1100e-003	0.0124	2.2200e-003	0.0146	3.1200e-003	2.2100e-003	5.3300e-003	0.0000	108.0049	108.0049	3.1400e-003	0.0000	108.0834
Maximum	0.1445	1.2428	1.3997	4.0500e-003	0.0455	0.0445	0.0900	0.0119	0.0411	0.0530	0.0000	363.5101	363.5101	0.0841	0.0000	365.6123

2.1 Overall Construction

Mitigated Construction

Bucks Creek Hydroelectric Project - Plumas County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	9.6500e-003	0.1389	0.0750	3.6000e-004	5.8100e-003	2.8900e-003	8.7000e-003	1.5600e-003	2.6700e-003	4.2300e-003	0.0000	33.1897	33.1897	5.0300e-003	0.0000	33.3155
2022	0.0156	0.1463	0.1810	3.2000e-004	4.5100e-003	6.8300e-003	0.0114	1.1400e-003	6.2900e-003	7.4300e-003	0.0000	28.8999	28.8999	7.2400e-003	0.0000	29.0808
2023	0.1018	0.8334	1.0085	2.2800e-003	0.0170	0.0364	0.0534	4.3300e-003	0.0335	0.0378	0.0000	201.1540	201.1540	0.0585	0.0000	202.6167
2024	3.6000e-004	3.3600e-003	2.9500e-003	1.0000e-005	5.5000e-004	4.0000e-005	5.9000e-004	1.5000e-004	4.0000e-005	1.9000e-004	0.0000	1.3193	1.3193	8.0000e-005	0.0000	1.3213
2025	0.1445	1.2428	1.3997	4.0500e-003	0.0455	0.0445	0.0900	0.0119	0.0411	0.0530	0.0000	363.5098	363.5098	0.0841	0.0000	365.6120
2026	0.1308	1.0095	1.3450	3.3200e-003	0.0234	0.0404	0.0639	6.1700e-003	0.0372	0.0434	0.0000	294.1994	294.1994	0.0838	0.0000	296.2946
2027	0.0661	0.4796	0.7284	1.7700e-003	0.0114	0.0192	0.0306	3.0400e-003	0.0176	0.0207	0.0000	156.4272	156.4272	0.0455	0.0000	157.5655
2028	2.9400e-003	0.0196	0.0317	8.0000e-005	4.1000e-004	7.6000e-004	1.1700e-003	1.1000e-004	7.0000e-004	8.1000e-004	0.0000	7.0894	7.0894	2.1500e-003	0.0000	7.1432
2029	0.0136	0.1016	0.1470	3.8000e-004	3.2200e-003	3.8300e-003	7.0400e-003	8.1000e-004	3.5200e-003	4.3300e-003	0.0000	34.0132	34.0132	9.4800e-003	0.0000	34.2503
2030	2.3000e-004	2.0200e-003	2.7500e-003	1.0000e-005	2.1000e-004	2.0000e-005	2.3000e-004	6.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.8370	0.8370	3.0000e-005	0.0000	0.8376
2031	0.0350	0.1188	0.3260	8.4000e-004	4.4100e-003	3.6600e-003	8.0700e-003	1.1700e-003	3.6500e-003	4.8300e-003	0.0000	78.9553	78.9553	2.7900e-003	0.0000	79.0250
2033	0.0139	0.0479	0.1307	3.3000e-004	1.7700e-003	1.4600e-003	3.2300e-003	4.7000e-004	1.4600e-003	1.9300e-003	0.0000	31.5929	31.5929	1.1100e-003	0.0000	31.6207
2034	0.0184	0.0624	0.1724	4.4000e-004	2.2700e-003	1.9400e-003	4.2100e-003	6.0000e-004	1.9400e-003	2.5500e-003	0.0000	41.7791	41.7791	1.4700e-003	0.0000	41.8159
2035	6.2300e-003	0.0193	0.0624	1.6000e-004	9.1000e-004	4.7000e-004	1.3700e-003	2.4000e-004	4.6000e-004	7.1000e-004	0.0000	15.2554	15.2554	4.9000e-004	0.0000	15.2677
2040	0.0351	0.1218	0.2961	1.1100e-003	0.0124	2.2200e-003	0.0146	3.1200e-003	2.2100e-003	5.3300e-003	0.0000	108.0048	108.0048	3.1400e-003	0.0000	108.0833
Maximum	0.1445	1.2428	1.3997	4.0500e-003	0.0455	0.0445	0.0900	0.0119	0.0411	0.0530	0.0000	363.5098	363.5098	0.0841	0.0000	365.6120

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
7	5-6-2021	8-5-2021	0.1415	0.1415
11	5-6-2022	8-5-2022	0.1088	0.1088
12	8-6-2022	11-5-2022	0.0520	0.0520
15	5-6-2023	8-5-2023	0.7758	0.7758
16	8-6-2023	11-5-2023	0.1627	0.1627
19	5-6-2024	8-5-2024	0.0051	0.0051
23	5-6-2025	8-5-2025	1.1780	1.1780
24	8-6-2025	11-5-2025	0.2257	0.2257
27	5-6-2026	8-5-2026	0.8580	0.8580
28	8-6-2026	11-5-2026	0.2721	0.2721
31	5-6-2027	8-5-2027	0.4244	0.4244
32	8-6-2027	11-5-2027	0.1125	0.1125
35	5-6-2028	8-5-2028	0.0252	0.0252
39	5-6-2029	8-5-2029	0.1252	0.1252
43	5-6-2030	8-5-2030	0.0032	0.0032
47	5-6-2031	8-5-2031	0.1253	0.1253
48	8-6-2031	11-5-2031	0.0282	0.0282
55	5-6-2033	8-5-2033	0.0608	0.0608
59	5-6-2034	8-5-2034	0.0800	0.0800
63	5-6-2035	8-5-2035	0.0256	0.0256
83	5-6-2040	8-5-2040	0.1537	0.1537
		Highest	1.1780	1.1780

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2.2 Overall Operational

Unmitigated Operational

[illegible]

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2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	17a - Bucks Penstock Rd - Slope Stabilization	Building Construction	6/1/2021	6/23/2021	5	22	
2	17b - Bucks Penstock Rd - Unplug Culverts	Building Construction	6/1/2022	6/6/2022	5	5	

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3	27 - Sundew Campground - Paving	Building Construction	6/1/2022	9/7/2022	5	98
4	17d - Bucks Penstock Rd - Culvert Replacement	Building Construction	6/1/2023	9/3/2023	5	94
5	23c - Haskins Valley Campground - Unplug Culverts	Building Construction	6/1/2023	6/3/2023	5	2
6	24a - Hutchins Group Campground - Reconstruct Entrance	Building Construction	6/1/2023	6/3/2023	5	2
7	24b - Hutchins Group Campground - Dirt Resurfacing	Building Construction	6/1/2023	6/29/2023	5	28
8	24c - Hutchins Group Campground - Culvert Outfall	Building Construction	6/1/2023	6/2/2023	5	1
9	25c - Lower Bucks Campground - Reconstruct Intersection	Building Construction	6/1/2023	6/6/2023	5	5
10	26a - Mill Creek Campground - Resurfacing	Building Construction	6/1/2023	9/17/2023	5	108
11	26b - Mill Creek Campground - Culvert Replacement	Building Construction	6/1/2023	8/3/2023	5	63
12	16g - Three Lakes Rd - Culvert Outfall	Building Construction	6/1/2024	6/3/2024	5	2
13	28e - Sandy Point Day Use - Clear Vegetation	Building Construction	6/1/2024	6/6/2024	5	5
14	16a - Three Lakes Rd - Slope Stabilization	Building Construction	6/1/2025	9/21/2025	5	112
15	16b - Three Lakes Rd - Gravel Resurfacing	Building Construction	6/1/2025	6/2/2025	5	1
16	16c - Three Lakes Rd - Replace Pavement	Building Construction	6/1/2025	6/2/2025	5	1
17	16d - Three Lakes Rd - Unplug Culverts	Building Construction	6/1/2025	6/22/2025	5	21
18	16h - Three Lakes Rd - Water Crossings	Building Construction	6/1/2025	6/22/2025	5	21
19	26d - Mill Creek Campground - Repave	Building Construction	6/1/2025	10/8/2025	5	129
20	28a - Sandy Point Day Use - Replace Roadway	Building Construction	6/1/2025	7/27/2025	5	56
21	28b - Sandy Point Day Use - Reconstruct	Building Construction	6/1/2025	7/27/2025	5	56
22	28c - Sandy Point Day Use - Culvert Replacement	Building Construction	6/1/2025	6/15/2025	5	14
23	28d - Sandy Point Day Use - Unplug Culverts	Building Construction	6/1/2025	6/6/2025	5	5
24	16f - Three Lakes Rd - Culvert Replacement	Building Construction	6/1/2026	9/21/2026	5	112

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25	25a - Lower Bucks Campground - Reconstruct Entrance	Building Construction	6/1/2026	7/6/2026	5	35
26	25b - Lower Bucks Campground - Construct Roads	Building Construction	6/1/2026	7/6/2026	5	35
27	16e - Three Lakes Rd - Ditches	Building Construction	6/1/2027	8/24/2027	5	84
28	17c - Bucks Penstock Rd - Ditches	Building Construction	6/1/2027	6/11/2027	5	10
29	26c - Mill Creek Campground - Unplug Culverts	Building Construction	6/1/2027	6/3/2027	5	2
30	23b - Haskins Valley Campground - Ditches	Building Construction	6/1/2028	6/11/2028	5	10
31	18a - Grizzly Forebay Rd - Culvert Replacement	Building Construction	6/1/2029	6/15/2029	5	14
32	18b - Grizzly Forebay Rd - Unplug Culverts	Building Construction	6/1/2029	6/15/2029	5	14
33	18c - Grizzly Forebay Rd - Replace Pavement	Building Construction	6/1/2029	6/5/2029	5	4
34	24d - Hutchins Group Campground - Replace Pavement	Building Construction	6/1/2029	6/5/2029	5	4
35	22b - Grizzly Powerhouse Rd - Unplug Culverts	Building Construction	6/1/2030	6/4/2030	5	3
36	22a - Grizzly Powerhouse Rd - Culvert Replacement	Building Construction	6/1/2031	8/20/2031	5	80
37	22c - Grizzly Powerhouse Rd - Culvert Outfall	Building Construction	6/1/2031	6/2/2031	5	1
38	21a - Grizzly Portal Rd - Culvert Replacement	Building Construction	6/1/2033	7/2/2033	5	31
39	21b - Grizzly Portal Rd - Unplug Culverts	Building Construction	6/1/2033	6/2/2033	5	1
40	20 - Grizzly Powerhouse Intake Rd - Culvert Replacement	Building Construction	6/1/2034	7/13/2034	5	42
41	19a - Grizzly Communication Rds - Culvert Replacement	Building Construction	6/1/2035	6/15/2035	5	14
42	19b - Grizzly Communication Rds - Unplug Culverts	Building Construction	6/1/2035	6/3/2035	5	2
43	23a - Haskins Valley Campground - Replace Pavement	Building Construction	6/1/2040	6/29/2040	5	28

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
16a - Three Lakes Rd - Slope Stabilization	Excavators	1	8.00	158	0.38
16a - Three Lakes Rd - Slope Stabilization	Off-Highway Trucks	1	8.00	402	0.38
16b - Three Lakes Rd - Gravel Resurfacing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
16b - Three Lakes Rd - Gravel Resurfacing	Plate Compactors	1	8.00	8	0.43
16c - Three Lakes Rd - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
16c - Three Lakes Rd - Replace Pavement	Plate Compactors	1	8.00	8	0.43
16c - Three Lakes Rd - Replace Pavement	Paving Equipment	1	8.00	132	0.36
16d - Three Lakes Rd - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
16e - Three Lakes Rd - Ditches	Excavators	2	8.00	158	0.38
16e - Three Lakes Rd - Ditches	Tractors/Loaders/Backhoes	2	8.00	97	0.37
16e - Three Lakes Rd - Ditches	Rollers	2	8.00	80	0.38
16e - Three Lakes Rd - Ditches	Off-Highway Trucks	2	8.00	402	0.38
16f - Three Lakes Rd - Culvert Replacement	Excavators	2	8.00	158	0.38
16f - Three Lakes Rd - Culvert Replacement	Tractors/Loaders/Backhoes	2	8.00	97	0.37
16f - Three Lakes Rd - Culvert Replacement	Rollers	2	8.00	80	0.38
16f - Three Lakes Rd - Culvert Replacement	Off-Highway Trucks	2	8.00	402	0.38
16g - Three Lakes Rd - Culvert Outfall	Tractors/Loaders/Backhoes	1	8.00	97	0.37
16h - Three Lakes Rd - Water Crossings	Excavators	1	8.00	158	0.38
16h - Three Lakes Rd - Water Crossings	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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16h - Three Lakes Rd - Water Crossings	Off-Highway Trucks	1	8.00	402	0.38
17a - Bucks Penstock Rd - Slope Stabilization	Excavators	1	8.00	158	0.38
17a - Bucks Penstock Rd - Slope Stabilization	Off-Highway Trucks	1	8.00	402	0.38
17b - Bucks Penstock Rd - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
17c - Bucks Penstock Rd - Ditches	Excavators	1	8.00	158	0.38
17c - Bucks Penstock Rd - Ditches	Tractors/Loaders/Backhoes	1	8.00	97	0.37
17c - Bucks Penstock Rd - Ditches	Rollers	1	8.00	80	0.38
17c - Bucks Penstock Rd - Ditches	Off-Highway Trucks	1	8.00	402	0.38
17d - Bucks Penstock Rd - Culvert Replacement	Excavators	1	8.00	158	0.38
17d - Bucks Penstock Rd - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
17d - Bucks Penstock Rd - Culvert Replacement	Rollers	1	8.00	80	0.38
17d - Bucks Penstock Rd - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
18a - Grizzly Forebay Rd - Culvert Replacement	Excavators	1	8.00	158	0.38
18a - Grizzly Forebay Rd - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
18a - Grizzly Forebay Rd - Culvert Replacement	Rollers	1	8.00	80	0.38
18a - Grizzly Forebay Rd - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
18b - Grizzly Forebay Rd - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
18c - Grizzly Forebay Rd - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
18c - Grizzly Forebay Rd - Replace Pavement	Excavators	1	8.00	158	0.38
18c - Grizzly Forebay Rd - Replace Pavement	Off-Highway Trucks	2	8.00	402	0.38
18c - Grizzly Forebay Rd - Replace Pavement	Paving Equipment	1	8.00	132	0.36
18c - Grizzly Forebay Rd - Replace Pavement	Rollers	1	8.00	80	0.38
18c - Grizzly Forebay Rd - Replace Pavement	Off-Highway Trucks	1	8.00	402	0.38

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18c - Grizzly Forebay Rd - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
18c - Grizzly Forebay Rd - Replace Pavement	Skid Steer Loaders	1	8.00	65	0.37
19a - Grizzly Communication Rds - Culvert Replacement	Excavators	1	8.00	158	0.38
19a - Grizzly Communication Rds - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
19a - Grizzly Communication Rds - Culvert Replacement	Rollers	1	8.00	80	0.38
19a - Grizzly Communication Rds - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
19b - Grizzly Communication Rds - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
20 - Grizzly Powerhouse Intake Rd - Culvert Replacement	Excavators	1	8.00	158	0.38
20 - Grizzly Powerhouse Intake Rd - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
20 - Grizzly Powerhouse Intake Rd - Culvert Replacement	Rollers	1	8.00	80	0.38
20 - Grizzly Powerhouse Intake Rd - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
21a - Grizzly Portal Rd - Culvert Replacement	Excavators	1	8.00	158	0.38
21a - Grizzly Portal Rd - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
21a - Grizzly Portal Rd - Culvert Replacement	Rollers	1	8.00	80	0.38
21a - Grizzly Portal Rd - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
21b - Grizzly Portal Rd - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
22a - Grizzly Powerhouse Rd - Culvert Replacement	Excavators	1	8.00	158	0.38
22a - Grizzly Powerhouse Rd - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
22a - Grizzly Powerhouse Rd - Culvert Replacement	Rollers	1	8.00	80	0.38
22a - Grizzly Powerhouse Rd - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
22b - Grizzly Powerhouse Rd - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
22c - Grizzly Powerhouse Rd - Culvert Outfall	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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23a - Haskins Valley Campground - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
23a - Haskins Valley Campground - Replace Pavement	Excavators	1	8.00	158	0.38
23a - Haskins Valley Campground - Replace Pavement	Off-Highway Trucks	2	8.00	402	0.38
23a - Haskins Valley Campground - Replace Pavement	Paving Equipment	1	8.00	132	0.36
23a - Haskins Valley Campground - Replace Pavement	Rollers	1	8.00	80	0.38
23a - Haskins Valley Campground - Replace Pavement	Off-Highway Trucks	2	8.00	402	0.38
23a - Haskins Valley Campground - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
23a - Haskins Valley Campground - Replace Pavement	Skid Steer Loaders	1	8.00	65	0.37
23b - Haskins Valley Campground - Ditches	Excavators	1	8.00	158	0.38
23b - Haskins Valley Campground - Ditches	Tractors/Loaders/Backhoes	1	8.00	97	0.37
23b - Haskins Valley Campground - Ditches	Off-Highway Trucks	1	8.00	402	0.38
23c - Haskins Valley Campground - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24a - Hutchins Group Campground - Reconstruct Entrance	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24a - Hutchins Group Campground - Reconstruct Entrance	Rubber Tired Dozers	1	8.00	247	0.40
24a - Hutchins Group Campground - Reconstruct Entrance	Skid Steer Loaders	1	8.00	65	0.37
24a - Hutchins Group Campground - Reconstruct Entrance	Rollers	1	8.00	80	0.38
24a - Hutchins Group Campground - Reconstruct Entrance	Off-Highway Trucks	1	8.00	402	0.38
24b - Hutchins Group Campground - Dirt Resurfacing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24b - Hutchins Group Campground - Dirt Resurfacing	Rubber Tired Dozers	1	8.00	247	0.40
24b - Hutchins Group Campground - Dirt Resurfacing	Skid Steer Loaders	1	8.00	65	0.37
24b - Hutchins Group Campground - Dirt Resurfacing	Rollers	1	8.00	80	0.38
24b - Hutchins Group Campground - Dirt Resurfacing	Off-Highway Trucks	1	8.00	402	0.38

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24c - Hutchins Group Campground - Culvert Outfall	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24d - Hutchins Group Campground - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24d - Hutchins Group Campground - Replace Pavement	Excavators	1	8.00	158	0.38
24d - Hutchins Group Campground - Replace Pavement	Off-Highway Trucks	2	8.00	402	0.38
24d - Hutchins Group Campground - Replace Pavement	Paving Equipment	1	8.00	132	0.36
24d - Hutchins Group Campground - Replace Pavement	Rollers	1	8.00	80	0.38
24d - Hutchins Group Campground - Replace Pavement	Off-Highway Trucks	1	8.00	402	0.38
24d - Hutchins Group Campground - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24d - Hutchins Group Campground - Replace Pavement	Skid Steer Loaders	1	8.00	65	0.37
25a - Lower Bucks Campground - Reconstruct Entrance	Excavators	1	8.00	158	0.38
25a - Lower Bucks Campground - Reconstruct Entrance	Tractors/Loaders/Backhoes	1	8.00	97	0.37
25a - Lower Bucks Campground - Reconstruct Entrance	Rubber Tired Dozers	1	8.00	247	0.40
25a - Lower Bucks Campground - Reconstruct Entrance	Rollers	1	8.00	80	0.38
25a - Lower Bucks Campground - Reconstruct Entrance	Paving Equipment	1	8.00	132	0.36
25a - Lower Bucks Campground - Reconstruct Entrance	Off-Highway Trucks	1	8.00	402	0.38
25b - Lower Bucks Campground - Construct Roads	Excavators	1	8.00	158	0.38
25b - Lower Bucks Campground - Construct Roads	Tractors/Loaders/Backhoes	1	8.00	97	0.37
25b - Lower Bucks Campground - Construct Roads	Rubber Tired Dozers	1	8.00	247	0.40
25b - Lower Bucks Campground - Construct Roads	Rollers	1	8.00	80	0.38
25b - Lower Bucks Campground - Construct Roads	Paving Equipment	1	8.00	132	0.36
25b - Lower Bucks Campground - Construct Roads	Off-Highway Trucks	1	8.00	402	0.38
25c - Lower Bucks Campground - Reconstruct Intersection	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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25c - Lower Bucks Campground - Reconstruct Intersection	Rubber Tired Dozers	1	8.00	247	0.40
25c - Lower Bucks Campground - Reconstruct Intersection	Skid Steer Loaders	1	8.00	65	0.37
25c - Lower Bucks Campground - Reconstruct Intersection	Rollers	1	8.00	80	0.38
25c - Lower Bucks Campground - Reconstruct Intersection	Off-Highway Trucks	1	8.00	402	0.38
26a - Mill Creek Campground - Resurfacing	Rollers	1	8.00	80	0.38
26a - Mill Creek Campground - Resurfacing	Paving Equipment	1	8.00	132	0.36
26b - Mill Creek Campground - Culvert Replacement	Excavators	1	8.00	158	0.38
26b - Mill Creek Campground - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
26b - Mill Creek Campground - Culvert Replacement	Rollers	1	8.00	80	0.38
26b - Mill Creek Campground - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
26c - Mill Creek Campground - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
26d - Mill Creek Campground - Repave	Rollers	1	8.00	80	0.38
26d - Mill Creek Campground - Repave	Paving Equipment	1	8.00	132	0.36
27 - Sundew Campground - Paving	Rollers	1	8.00	80	0.38
27 - Sundew Campground - Paving	Paving Equipment	1	8.00	132	0.36
28a - Sandy Point Day Use - Replace Roadway	Excavators	1	8.00	158	0.38
28a - Sandy Point Day Use - Replace Roadway	Tractors/Loaders/Backhoes	1	8.00	97	0.37
28a - Sandy Point Day Use - Replace Roadway	Rubber Tired Dozers	1	8.00	247	0.40
28a - Sandy Point Day Use - Replace Roadway	Rollers	1	8.00	80	0.38
28a - Sandy Point Day Use - Replace Roadway	Paving Equipment	1	8.00	132	0.36
28a - Sandy Point Day Use - Replace Roadway	Off-Highway Trucks	1	8.00	402	0.38
28b - Sandy Point Day Use - Reconstruct	Excavators	1	8.00	70	0.38
28b - Sandy Point Day Use - Reconstruct	Off-Highway Trucks	1	4.00	402	0.38

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28b - Sandy Point Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
28b - Sandy Point Day Use - Reconstruct	Rubber Tired Dozers	1	8.00	247	0.40
28b - Sandy Point Day Use - Reconstruct	Rollers	1	8.00	80	0.38
28b - Sandy Point Day Use - Reconstruct	Paving Equipment	1	8.00	132	0.36
28b - Sandy Point Day Use - Reconstruct	Generator Sets	1	8.00	84	0.74
28b - Sandy Point Day Use - Reconstruct	Other General Industrial Equipment	1	2.00	4	0.34
28c - Sandy Point Day Use - Culvert Replacement	Excavators	1	8.00	158	0.38
28c - Sandy Point Day Use - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
28c - Sandy Point Day Use - Culvert Replacement	Rollers	1	8.00	80	0.38
28c - Sandy Point Day Use - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
28d - Sandy Point Day Use - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
28e - Sandy Point Day Use - Clear Vegetation	Other General Industrial Equipment	2	8.00	4	0.34
28e - Sandy Point Day Use - Clear Vegetation	Other General Industrial Equipment	2	8.00	2	0.34

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
16a - Three Lakes Rd Slope Stabilization	2	6.00	0.00	1,778.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16b - Three Lakes Rd Gravel Resurfacing	2	6.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16c - Three Lakes Rd Replace Pavement	3	8.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16d - Three Lakes Rd Unplug Culverts	1	4.00	0.00	14.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16e - Three Lakes Rd Ditches	8	20.00	0.00	274.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16f - Three Lakes Rd Culvert Replacement	8	20.00	0.00	176.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16g - Three Lakes Rd Culvert Outfall	1	4.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT

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16h - Three Lakes Rd Water Crossings	3	8.00	0.00	6.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
17a - Bucks Penstock Pd - Stone Stabilization	2	6.00	0.00	444.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
17b - Bucks Penstock Pd - Hauling Culverts	1	4.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
17c - Bucks Penstock Pd - Ditches	4	10.00	0.00	8.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
17d - Bucks Penstock Pd - Culvert Replac	4	10.00	0.00	76.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
18a - Grizzly Forebay Pd - Culvert Replac	4	10.00	0.00	16.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
18b - Grizzly Forebay Pd - Hauling Culverts	1	4.00	0.00	10.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
18c - Grizzly Forebay Pd - Pavement	9	24.00	0.00	30.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
19a - Grizzly Communication Pds	4	10.00	0.00	16.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
19b - Grizzly Communication Pds	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
20 - Grizzly Powerhouse Intake P	4	10.00	0.00	32.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
21a - Grizzly Portal Rd - Culvert Replacment	4	10.00	0.00	24.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
21b - Grizzly Portal Rd - Hauling Culverts	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
22a - Grizzly Powerhouse Pd - Culv	4	10.00	0.00	70.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
22b - Grizzly Powerhouse Pd - Haul	1	4.00	0.00	14.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
22c - Grizzly Powerhouse Pd - Culv	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
23a - Haskins Valley Campground - Replan	10	26.00	0.00	680.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
23b - Haskins Valley Campground - Ditches	3	8.00	0.00	6.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
23c - Haskins Valley Campground - Hauling	1	4.00	0.00	10.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
24a - Hutchins Group Campground - Recons	5	14.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
24b - Hutchins Group Campground - Dirt Pa	5	14.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
24c - Hutchins Group Campground - Culvert	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
24d - Hutchins Group Campground - Replan	9	24.00	0.00	40.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
25a - Lower Bucks Campground - Recons	6	16.00	0.00	288.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
25b - Lower Bucks Campground - Constr	6	16.00	0.00	224.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
25c - Lower Bucks Campground - Recons	5	14.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
26a - Mill Creek Campground - Resurf	2	6.00	0.00	156.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT

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26b - Mill Creek Campground - Culvert	4	10.00	0.00	62.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
26c - Mill Creek Campground - Unplug	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
26d - Mill Creek Campground - Penstock	2	6.00	0.00	100.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
27 - Sundew Campground - Paving	2	6.00	0.00	120.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
28a - Sandy Point Day Use - Penstock Roadw.	6	16.00	0.00	228.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
28b - Sandy Point Day Use - Reconstruct	8	20.00	0.00	190.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
28c - Sandy Point Day Use - Culvert Penstock	4	10.00	0.00	16.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
28d - Sandy Point Day Use - Unplug Culverts	1	4.00	0.00	8.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
28e - Sandy Point Day Use - Clear Vegetation	4	10.00	0.00	20.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 17a - Bucks Penstock Rd - Slope Stabilization - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1000e-003	0.0630	0.0585	1.6000e-004		2.5300e-003	2.5300e-003		2.3300e-003	2.3300e-003	0.0000	13.7158	13.7158	4.4400e-003	0.0000	13.8267
Total	7.1000e-003	0.0630	0.0585	1.6000e-004		2.5300e-003	2.5300e-003		2.3300e-003	2.3300e-003	0.0000	13.7158	13.7158	4.4400e-003	0.0000	13.8267

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3.2 17a - Bucks Penstock Rd - Slope Stabilization - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9200e-003	0.0754	0.0121	2.0000e-004	5.1800e-003	3.5000e-004	5.5400e-003	1.3900e-003	3.4000e-004	1.7300e-003	0.0000	18.8619	18.8619	5.5000e-004	0.0000	18.8757
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	4.8000e-004	4.5100e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	0.6120	0.6120	4.0000e-005	0.0000	0.6131
Total	2.5500e-003	0.0759	0.0166	2.1000e-004	5.8000e-003	3.6000e-004	6.1700e-003	1.5600e-003	3.5000e-004	1.9000e-003	0.0000	19.4739	19.4739	5.9000e-004	0.0000	19.4888

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.1000e-003	0.0630	0.0585	1.6000e-004		2.5300e-003	2.5300e-003		2.3300e-003	2.3300e-003	0.0000	13.7158	13.7158	4.4400e-003	0.0000	13.8267
Total	7.1000e-003	0.0630	0.0585	1.6000e-004		2.5300e-003	2.5300e-003		2.3300e-003	2.3300e-003	0.0000	13.7158	13.7158	4.4400e-003	0.0000	13.8267

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3.2 17a - Bucks Penstock Rd - Slope Stabilization - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9200e-003	0.0754	0.0121	2.0000e-004	5.1800e-003	3.5000e-004	5.5400e-003	1.3900e-003	3.4000e-004	1.7300e-003	0.0000	18.8619	18.8619	5.5000e-004	0.0000	18.8757
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	4.8000e-004	4.5100e-003	1.0000e-005	6.2000e-004	1.0000e-005	6.3000e-004	1.7000e-004	1.0000e-005	1.7000e-004	0.0000	0.6120	0.6120	4.0000e-005	0.0000	0.6131
Total	2.5500e-003	0.0759	0.0166	2.1000e-004	5.8000e-003	3.6000e-004	6.1700e-003	1.5600e-003	3.5000e-004	1.9000e-003	0.0000	19.4739	19.4739	5.9000e-004	0.0000	19.4888

3.3 17b - Bucks Penstock Rd - Unplug Culverts - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3000e-004	3.3500e-003	4.4800e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.5466	0.5466	1.8000e-004	0.0000	0.5510
Total	3.3000e-004	3.3500e-003	4.4800e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.5466	0.5466	1.8000e-004	0.0000	0.5510

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3.3 17b - Bucks Penstock Rd - Unplug Culverts - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.4000e-004	1.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1740	0.1740	1.0000e-005	0.0000	0.1742
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	7.0000e-005	6.2000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0928	0.0928	1.0000e-005	0.0000	0.0930
Total	1.1000e-004	7.1000e-004	7.2000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.2668	0.2668	2.0000e-005	0.0000	0.2671

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3000e-004	3.3500e-003	4.4800e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.5466	0.5466	1.8000e-004	0.0000	0.5510
Total	3.3000e-004	3.3500e-003	4.4800e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.5466	0.5466	1.8000e-004	0.0000	0.5510

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3.3 17b - Bucks Penstock Rd - Unplug Culverts - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.4000e-004	1.0000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1740	0.1740	1.0000e-005	0.0000	0.1742
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	7.0000e-005	6.2000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0928	0.0928	1.0000e-005	0.0000	0.0930
Total	1.1000e-004	7.1000e-004	7.2000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.2668	0.2668	2.0000e-005	0.0000	0.2671

3.4 27 - Sundew Campground - Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.1230	0.1564	2.4000e-004		6.5400e-003	6.5400e-003		6.0200e-003	6.0200e-003	0.0000	20.8873	20.8873	6.7600e-003	0.0000	21.0562
Total	0.0122	0.1230	0.1564	2.4000e-004	3.8000e-004	6.5400e-003	6.9200e-003	4.0000e-005	6.0200e-003	6.0600e-003	0.0000	20.8873	20.8873	6.7600e-003	0.0000	21.0562

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3.4 27 - Sundew Campground - Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0175	2.8300e-003	5.0000e-005	1.3800e-003	8.0000e-005	1.4600e-003	3.7000e-004	8.0000e-005	4.4000e-004	0.0000	4.7279	4.7279	1.4000e-004	0.0000	4.7313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4600e-003	1.7700e-003	0.0165	3.0000e-005	2.6000e-003	3.0000e-005	2.6300e-003	6.9000e-004	3.0000e-005	7.2000e-004	0.0000	2.4713	2.4713	1.6000e-004	0.0000	2.4752
Total	2.9200e-003	0.0193	0.0193	8.0000e-005	3.9800e-003	1.1000e-004	4.0900e-003	1.0600e-003	1.1000e-004	1.1600e-003	0.0000	7.1992	7.1992	3.0000e-004	0.0000	7.2065

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.1230	0.1564	2.4000e-004		6.5400e-003	6.5400e-003		6.0200e-003	6.0200e-003	0.0000	20.8873	20.8873	6.7600e-003	0.0000	21.0562
Total	0.0122	0.1230	0.1564	2.4000e-004	3.8000e-004	6.5400e-003	6.9200e-003	4.0000e-005	6.0200e-003	6.0600e-003	0.0000	20.8873	20.8873	6.7600e-003	0.0000	21.0562

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3.4 27 - Sundew Campground - Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0175	2.8300e-003	5.0000e-005	1.3800e-003	8.0000e-005	1.4600e-003	3.7000e-004	8.0000e-005	4.4000e-004	0.0000	4.7279	4.7279	1.4000e-004	0.0000	4.7313
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4600e-003	1.7700e-003	0.0165	3.0000e-005	2.6000e-003	3.0000e-005	2.6300e-003	6.9000e-004	3.0000e-005	7.2000e-004	0.0000	2.4713	2.4713	1.6000e-004	0.0000	2.4752
Total	2.9200e-003	0.0193	0.0193	8.0000e-005	3.9800e-003	1.1000e-004	4.0900e-003	1.0600e-003	1.1000e-004	1.1600e-003	0.0000	7.1992	7.1992	3.0000e-004	0.0000	7.2065

3.5 17d - Bucks Penstock Rd - Culvert Replacement - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.2768	0.3561	8.1000e-004		0.0124	0.0124		0.0114	0.0114	0.0000	70.9829	70.9829	0.0230	0.0000	71.5568
Total	0.0334	0.2768	0.3561	8.1000e-004	2.0000e-005	0.0124	0.0124	0.0000	0.0114	0.0114	0.0000	70.9829	70.9829	0.0230	0.0000	71.5568

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3.5 17d - Bucks Penstock Rd - Culvert Replacement - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	8.0800e-003	1.6000e-003	3.0000e-005	8.7000e-004	3.0000e-005	9.1000e-004	2.3000e-004	3.0000e-005	2.6000e-004	0.0000	2.8657	2.8657	8.0000e-005	0.0000	2.8676
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-003	2.4700e-003	0.0225	4.0000e-005	4.0900e-003	4.0000e-005	4.1300e-003	1.0900e-003	4.0000e-005	1.1300e-003	0.0000	3.7511	3.7511	2.1000e-004	0.0000	3.7564
Total	3.8200e-003	0.0106	0.0241	7.0000e-005	4.9600e-003	7.0000e-005	5.0400e-003	1.3200e-003	7.0000e-005	1.3900e-003	0.0000	6.6168	6.6168	2.9000e-004	0.0000	6.6240

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.2768	0.3561	8.1000e-004		0.0124	0.0124		0.0114	0.0114	0.0000	70.9828	70.9828	0.0230	0.0000	71.5567
Total	0.0334	0.2768	0.3561	8.1000e-004	2.0000e-005	0.0124	0.0124	0.0000	0.0114	0.0114	0.0000	70.9828	70.9828	0.0230	0.0000	71.5567

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3.5 17d - Bucks Penstock Rd - Culvert Replacement - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	8.0800e-003	1.6000e-003	3.0000e-005	8.7000e-004	3.0000e-005	9.1000e-004	2.3000e-004	3.0000e-005	2.6000e-004	0.0000	2.8657	2.8657	8.0000e-005	0.0000	2.8676
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-003	2.4700e-003	0.0225	4.0000e-005	4.0900e-003	4.0000e-005	4.1300e-003	1.0900e-003	4.0000e-005	1.1300e-003	0.0000	3.7511	3.7511	2.1000e-004	0.0000	3.7564
Total	3.8200e-003	0.0106	0.0241	7.0000e-005	4.9600e-003	7.0000e-005	5.0400e-003	1.3200e-003	7.0000e-005	1.3900e-003	0.0000	6.6168	6.6168	2.9000e-004	0.0000	6.6240

3.6 23c - Haskins Valley Campground - Unplug Culverts - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5000e-004	1.5400e-003	2.2300e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2736	0.2736	9.0000e-005	0.0000	0.2758
Total	1.5000e-004	1.5400e-003	2.2300e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2736	0.2736	9.0000e-005	0.0000	0.2758

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3.6 23c - Haskins Valley Campground - Unplug Culverts - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.4900e-003	3.0000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5290	0.5290	1.0000e-005	0.0000	0.5294
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0448	0.0448	0.0000	0.0000	0.0449
Total	8.0000e-005	1.5200e-003	5.7000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5738	0.5738	1.0000e-005	0.0000	0.5742

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5000e-004	1.5400e-003	2.2300e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2736	0.2736	9.0000e-005	0.0000	0.2758
Total	1.5000e-004	1.5400e-003	2.2300e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2736	0.2736	9.0000e-005	0.0000	0.2758

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3.6 23c - Haskins Valley Campground - Unplug Culverts - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.4900e-003	3.0000e-004	1.0000e-005	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5290	0.5290	1.0000e-005	0.0000	0.5294
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0448	0.0448	0.0000	0.0000	0.0449
Total	8.0000e-005	1.5200e-003	5.7000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5738	0.5738	1.0000e-005	0.0000	0.5742

3.7 24a - Hutchins Group Campground - Reconstruct Entrance - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0147	0.0119	3.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.5973	2.5973	8.4000e-004	0.0000	2.6183
Total	1.5600e-003	0.0147	0.0119	3.0000e-005	2.7000e-004	6.4000e-004	9.1000e-004	3.0000e-005	5.9000e-004	6.2000e-004	0.0000	2.5973	2.5973	8.4000e-004	0.0000	2.6183

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3.7 24a - Hutchins Group Campground - Reconstruct Entrance - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	9.4000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1568	0.1568	1.0000e-005	0.0000	0.1570
Total	1.5000e-004	1.0000e-004	9.4000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1568	0.1568	1.0000e-005	0.0000	0.1570

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5600e-003	0.0147	0.0119	3.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.5973	2.5973	8.4000e-004	0.0000	2.6183
Total	1.5600e-003	0.0147	0.0119	3.0000e-005	2.7000e-004	6.4000e-004	9.1000e-004	3.0000e-005	5.9000e-004	6.2000e-004	0.0000	2.5973	2.5973	8.4000e-004	0.0000	2.6183

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3.7 24a - Hutchins Group Campground - Reconstruct Entrance - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.0000e-004	9.4000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1568	0.1568	1.0000e-005	0.0000	0.1570
Total	1.5000e-004	1.0000e-004	9.4000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1568	0.1568	1.0000e-005	0.0000	0.1570

3.8 24b - Hutchins Group Campground - Dirt Resurfacing - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-004	0.0000	2.0000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.1544	0.1246	3.1000e-004		6.7600e-003	6.7600e-003		6.2200e-003	6.2200e-003	0.0000	27.2719	27.2719	8.8200e-003	0.0000	27.4924
Total	0.0164	0.1544	0.1246	3.1000e-004	2.0000e-004	6.7600e-003	6.9600e-003	2.0000e-005	6.2200e-003	6.2400e-003	0.0000	27.2719	27.2719	8.8200e-003	0.0000	27.4924

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3.8 24b - Hutchins Group Campground - Dirt Resurfacing - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5800e-003	1.0800e-003	9.8900e-003	2.0000e-005	1.8000e-003	2.0000e-005	1.8100e-003	4.8000e-004	2.0000e-005	4.9000e-004	0.0000	1.6460	1.6460	9.0000e-005	0.0000	1.6483
Total	1.5800e-003	1.0800e-003	9.8900e-003	2.0000e-005	1.8000e-003	2.0000e-005	1.8100e-003	4.8000e-004	2.0000e-005	4.9000e-004	0.0000	1.6460	1.6460	9.0000e-005	0.0000	1.6483

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-004	0.0000	2.0000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0164	0.1544	0.1246	3.1000e-004		6.7600e-003	6.7600e-003		6.2200e-003	6.2200e-003	0.0000	27.2719	27.2719	8.8200e-003	0.0000	27.4924
Total	0.0164	0.1544	0.1246	3.1000e-004	2.0000e-004	6.7600e-003	6.9600e-003	2.0000e-005	6.2200e-003	6.2400e-003	0.0000	27.2719	27.2719	8.8200e-003	0.0000	27.4924

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3.8 24b - Hutchins Group Campground - Dirt Resurfacing - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5800e-003	1.0800e-003	9.8900e-003	2.0000e-005	1.8000e-003	2.0000e-005	1.8100e-003	4.8000e-004	2.0000e-005	4.9000e-004	0.0000	1.6460	1.6460	9.0000e-005	0.0000	1.6483
Total	1.5800e-003	1.0800e-003	9.8900e-003	2.0000e-005	1.8000e-003	2.0000e-005	1.8100e-003	4.8000e-004	2.0000e-005	4.9000e-004	0.0000	1.6460	1.6460	9.0000e-005	0.0000	1.6483

3.9 24c - Hutchins Group Campground - Culvert Outfall - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5000e-004	1.5400e-003	2.2300e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2736	0.2736	9.0000e-005	0.0000	0.2758
Total	1.5000e-004	1.5400e-003	2.2300e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2736	0.2736	9.0000e-005	0.0000	0.2758

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3.9 24c - Hutchins Group Campground - Culvert Outfall - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.0000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.2116	0.2116	1.0000e-005	0.0000	0.2118
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0448	0.0448	0.0000	0.0000	0.0449
Total	6.0000e-005	6.3000e-004	3.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2564	0.2564	1.0000e-005	0.0000	0.2566

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5000e-004	1.5400e-003	2.2300e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2736	0.2736	9.0000e-005	0.0000	0.2758
Total	1.5000e-004	1.5400e-003	2.2300e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2736	0.2736	9.0000e-005	0.0000	0.2758

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3.9 24c - Hutchins Group Campground - Culvert Outfall - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	6.0000e-004	1.2000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.2116	0.2116	1.0000e-005	0.0000	0.2118
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.7000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0448	0.0448	0.0000	0.0000	0.0449
Total	6.0000e-005	6.3000e-004	3.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2564	0.2564	1.0000e-005	0.0000	0.2566

3.10 25c - Lower Bucks Campground - Reconstruct Intersection - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1200e-003	0.0294	0.0237	6.0000e-005		1.2900e-003	1.2900e-003		1.1800e-003	1.1800e-003	0.0000	5.1947	5.1947	1.6800e-003	0.0000	5.2367
Total	3.1200e-003	0.0294	0.0237	6.0000e-005	4.0000e-005	1.2900e-003	1.3300e-003	0.0000	1.1800e-003	1.1800e-003	0.0000	5.1947	5.1947	1.6800e-003	0.0000	5.2367

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3.10 25c - Lower Bucks Campground - Reconstruct Intersection - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.8000e-004	9.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1693	0.1693	0.0000	0.0000	0.1694
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	1.8800e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3135	0.3135	2.0000e-005	0.0000	0.3140
Total	3.1000e-004	6.9000e-004	1.9700e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.4828	0.4828	2.0000e-005	0.0000	0.4834

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1200e-003	0.0294	0.0237	6.0000e-005		1.2900e-003	1.2900e-003		1.1800e-003	1.1800e-003	0.0000	5.1946	5.1946	1.6800e-003	0.0000	5.2366
Total	3.1200e-003	0.0294	0.0237	6.0000e-005	4.0000e-005	1.2900e-003	1.3300e-003	0.0000	1.1800e-003	1.1800e-003	0.0000	5.1946	5.1946	1.6800e-003	0.0000	5.2366

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3.10 25c - Lower Bucks Campground - Reconstruct Intersection - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.8000e-004	9.0000e-005	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1693	0.1693	0.0000	0.0000	0.1694
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	1.8800e-003	0.0000	3.4000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3135	0.3135	2.0000e-005	0.0000	0.3140
Total	3.1000e-004	6.9000e-004	1.9700e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.4828	0.4828	2.0000e-005	0.0000	0.4834

3.11 26a - Mill Creek Campground - Resurfacing - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6000e-004	0.0000	7.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0125	0.1237	0.1698	2.6000e-004		6.4100e-003	6.4100e-003		5.9000e-003	5.9000e-003	0.0000	22.6525	22.6525	7.3300e-003	0.0000	22.8357
Total	0.0125	0.1237	0.1698	2.6000e-004	7.6000e-004	6.4100e-003	7.1700e-003	8.0000e-005	5.9000e-003	5.9800e-003	0.0000	22.6525	22.6525	7.3300e-003	0.0000	22.8357

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3.11 26a - Mill Creek Campground - Resurfacing - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5000e-004	0.0166	3.2900e-003	6.0000e-005	1.7900e-003	7.0000e-005	1.8600e-003	4.8000e-004	6.0000e-005	5.4000e-004	0.0000	5.8838	5.8838	1.5000e-004	0.0000	5.8877
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4800e-003	1.7000e-003	0.0155	3.0000e-005	2.8200e-003	3.0000e-005	2.8500e-003	7.5000e-004	3.0000e-005	7.8000e-004	0.0000	2.5866	2.5866	1.5000e-004	0.0000	2.5903
Total	2.9300e-003	0.0183	0.0188	9.0000e-005	4.6100e-003	1.0000e-004	4.7100e-003	1.2300e-003	9.0000e-005	1.3200e-003	0.0000	8.4704	8.4704	3.0000e-004	0.0000	8.4779

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6000e-004	0.0000	7.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0125	0.1237	0.1698	2.6000e-004		6.4100e-003	6.4100e-003		5.9000e-003	5.9000e-003	0.0000	22.6525	22.6525	7.3300e-003	0.0000	22.8357
Total	0.0125	0.1237	0.1698	2.6000e-004	7.6000e-004	6.4100e-003	7.1700e-003	8.0000e-005	5.9000e-003	5.9800e-003	0.0000	22.6525	22.6525	7.3300e-003	0.0000	22.8357

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3.11 26a - Mill Creek Campground - Resurfacing - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.5000e-004	0.0166	3.2900e-003	6.0000e-005	1.7900e-003	7.0000e-005	1.8600e-003	4.8000e-004	6.0000e-005	5.4000e-004	0.0000	5.8838	5.8838	1.5000e-004	0.0000	5.8877
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4800e-003	1.7000e-003	0.0155	3.0000e-005	2.8200e-003	3.0000e-005	2.8500e-003	7.5000e-004	3.0000e-005	7.8000e-004	0.0000	2.5866	2.5866	1.5000e-004	0.0000	2.5903
Total	2.9300e-003	0.0183	0.0188	9.0000e-005	4.6100e-003	1.0000e-004	4.7100e-003	1.2300e-003	9.0000e-005	1.3200e-003	0.0000	8.4704	8.4704	3.0000e-004	0.0000	8.4779

3.12 26b - Mill Creek Campground - Culvert Replacement - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.1900	0.2445	5.5000e-004		8.4900e-003	8.4900e-003		7.8100e-003	7.8100e-003	0.0000	48.7345	48.7345	0.0158	0.0000	49.1286
Total	0.0230	0.1900	0.2445	5.5000e-004	1.0000e-005	8.4900e-003	8.5000e-003	0.0000	7.8100e-003	7.8100e-003	0.0000	48.7345	48.7345	0.0158	0.0000	49.1286

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3.12 26b - Mill Creek Campground - Culvert Replacement - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	6.7500e-003	1.3400e-003	2.0000e-005	7.2000e-004	3.0000e-005	7.4000e-004	1.9000e-004	3.0000e-005	2.2000e-004	0.0000	2.3949	2.3949	6.0000e-005	0.0000	2.3964
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4700e-003	1.6900e-003	0.0155	3.0000e-005	2.8100e-003	3.0000e-005	2.8400e-003	7.5000e-004	3.0000e-005	7.7000e-004	0.0000	2.5754	2.5754	1.5000e-004	0.0000	2.5790
Total	2.6500e-003	8.4400e-003	0.0168	5.0000e-005	3.5300e-003	6.0000e-005	3.5800e-003	9.4000e-004	6.0000e-005	9.9000e-004	0.0000	4.9702	4.9702	2.1000e-004	0.0000	4.9755

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.1900	0.2445	5.5000e-004		8.4900e-003	8.4900e-003		7.8100e-003	7.8100e-003	0.0000	48.7345	48.7345	0.0158	0.0000	49.1285
Total	0.0230	0.1900	0.2445	5.5000e-004	1.0000e-005	8.4900e-003	8.5000e-003	0.0000	7.8100e-003	7.8100e-003	0.0000	48.7345	48.7345	0.0158	0.0000	49.1285

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3.12 26b - Mill Creek Campground - Culvert Replacement - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.8000e-004	6.7500e-003	1.3400e-003	2.0000e-005	7.2000e-004	3.0000e-005	7.4000e-004	1.9000e-004	3.0000e-005	2.2000e-004	0.0000	2.3949	2.3949	6.0000e-005	0.0000	2.3964
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4700e-003	1.6900e-003	0.0155	3.0000e-005	2.8100e-003	3.0000e-005	2.8400e-003	7.5000e-004	3.0000e-005	7.7000e-004	0.0000	2.5754	2.5754	1.5000e-004	0.0000	2.5790
Total	2.6500e-003	8.4400e-003	0.0168	5.0000e-005	3.5300e-003	6.0000e-005	3.5800e-003	9.4000e-004	6.0000e-005	9.9000e-004	0.0000	4.9702	4.9702	2.1000e-004	0.0000	4.9755

3.13 16g - Three Lakes Rd - Culvert Outfall - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0000e-005	7.2000e-004	1.1200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.1369	0.1369	4.0000e-005	0.0000	0.1380
Total	7.0000e-005	7.2000e-004	1.1200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.1369	0.1369	4.0000e-005	0.0000	0.1380

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3.13 16g - Three Lakes Rd - Culvert Outfall - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	6.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1050	0.1050	0.0000	0.0000	0.1051
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0216	0.0216	0.0000	0.0000	0.0216
Total	3.0000e-005	2.9000e-004	1.8000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1266	0.1266	0.0000	0.0000	0.1267

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0000e-005	7.2000e-004	1.1200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.1369	0.1369	4.0000e-005	0.0000	0.1380
Total	7.0000e-005	7.2000e-004	1.1200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.1369	0.1369	4.0000e-005	0.0000	0.1380

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3.13 16g - Three Lakes Rd - Culvert Outfall - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.8000e-004	6.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1050	0.1050	0.0000	0.0000	0.1051
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0216	0.0216	0.0000	0.0000	0.0216
Total	3.0000e-005	2.9000e-004	1.8000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1266	0.1266	0.0000	0.0000	0.1267

3.14 28e - Sandy Point Day Use - Clear Vegetation - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	2.2200e-003	4.7000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.4000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8401	0.8401	2.0000e-005	0.0000	0.8407
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.3000e-004	1.1900e-003	0.0000	2.4000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2158	0.2158	1.0000e-005	0.0000	0.2160
Total	2.6000e-004	2.3500e-003	1.6600e-003	1.0000e-005	4.7000e-004	1.0000e-005	4.9000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	1.0559	1.0559	3.0000e-005	0.0000	1.0567

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3.14 28e - Sandy Point Day Use - Clear Vegetation - 2024**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	2.2200e-003	4.7000e-004	1.0000e-005	2.3000e-004	1.0000e-005	2.4000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.8401	0.8401	2.0000e-005	0.0000	0.8407
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.3000e-004	1.1900e-003	0.0000	2.4000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2158	0.2158	1.0000e-005	0.0000	0.2160
Total	2.6000e-004	2.3500e-003	1.6600e-003	1.0000e-005	4.7000e-004	1.0000e-005	4.9000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	1.0559	1.0559	3.0000e-005	0.0000	1.0567

3.15 16a - Three Lakes Rd - Slope Stabilization - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0258	0.1635	0.2578	7.4000e-004		6.4900e-003	6.4900e-003		5.9700e-003	5.9700e-003	0.0000	64.5920	64.5920	0.0209	0.0000	65.1143
Total	0.0258	0.1635	0.2578	7.4000e-004	0.0000	6.4900e-003	6.4900e-003	0.0000	5.9700e-003	5.9700e-003	0.0000	64.5920	64.5920	0.0209	0.0000	65.1143

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3.15 16a - Three Lakes Rd - Slope Stabilization - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7300e-003	0.1656	0.0364	6.9000e-004	0.0204	5.7000e-004	0.0210	5.4400e-003	5.5000e-004	5.9900e-003	0.0000	66.2579	66.2579	1.6200e-003	0.0000	66.2983
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.4100e-003	0.0130	3.0000e-005	2.9300e-003	3.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.4920	2.4920	1.2000e-004	0.0000	2.4949
Total	6.9500e-003	0.1670	0.0494	7.2000e-004	0.0234	6.0000e-004	0.0240	6.2200e-003	5.7000e-004	6.7900e-003	0.0000	68.7499	68.7499	1.7400e-003	0.0000	68.7932

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0258	0.1635	0.2578	7.4000e-004		6.4900e-003	6.4900e-003		5.9700e-003	5.9700e-003	0.0000	64.5920	64.5920	0.0209	0.0000	65.1142
Total	0.0258	0.1635	0.2578	7.4000e-004	0.0000	6.4900e-003	6.4900e-003	0.0000	5.9700e-003	5.9700e-003	0.0000	64.5920	64.5920	0.0209	0.0000	65.1142

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3.15 16a - Three Lakes Rd - Slope Stabilization - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.7300e-003	0.1656	0.0364	6.9000e-004	0.0204	5.7000e-004	0.0210	5.4400e-003	5.5000e-004	5.9900e-003	0.0000	66.2579	66.2579	1.6200e-003	0.0000	66.2983
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2200e-003	1.4100e-003	0.0130	3.0000e-005	2.9300e-003	3.0000e-005	2.9600e-003	7.8000e-004	2.0000e-005	8.0000e-004	0.0000	2.4920	2.4920	1.2000e-004	0.0000	2.4949
Total	6.9500e-003	0.1670	0.0494	7.2000e-004	0.0234	6.0000e-004	0.0240	6.2200e-003	5.7000e-004	6.7900e-003	0.0000	68.7499	68.7499	1.7400e-003	0.0000	68.7932

3.16 16b - Three Lakes Rd - Gravel Resurfacing - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-005	7.9000e-004	1.2200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.1527	0.1527	5.0000e-005	0.0000	0.1538
Total	9.0000e-005	7.9000e-004	1.2200e-003	0.0000	5.0000e-005	3.0000e-005	8.0000e-005	1.0000e-005	3.0000e-005	4.0000e-005	0.0000	0.1527	0.1527	5.0000e-005	0.0000	0.1538

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3.16 16b - Three Lakes Rd - Gravel Resurfacing - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.6000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1043	0.1043	0.0000	0.0000	0.1044
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	1.6000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0312	0.0312	0.0000	0.0000	0.0312
Total	4.0000e-005	2.8000e-004	2.2000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1355	0.1355	0.0000	0.0000	0.1356

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-005	7.9000e-004	1.2200e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.1527	0.1527	5.0000e-005	0.0000	0.1538
Total	9.0000e-005	7.9000e-004	1.2200e-003	0.0000	5.0000e-005	3.0000e-005	8.0000e-005	1.0000e-005	3.0000e-005	4.0000e-005	0.0000	0.1527	0.1527	5.0000e-005	0.0000	0.1538

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3.16 16b - Three Lakes Rd - Gravel Resurfacing - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.6000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1043	0.1043	0.0000	0.0000	0.1044
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	1.6000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0312	0.0312	0.0000	0.0000	0.0312
Total	4.0000e-005	2.8000e-004	2.2000e-004	0.0000	6.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1355	0.1355	0.0000	0.0000	0.1356

3.17 16c - Three Lakes Rd - Replace Pavement - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-004	1.4300e-003	2.4900e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.3315	0.3315	1.0000e-004	0.0000	0.3341
Total	1.6000e-004	1.4300e-003	2.4900e-003	0.0000	5.0000e-005	6.0000e-005	1.1000e-004	1.0000e-005	6.0000e-005	7.0000e-005	0.0000	0.3315	0.3315	1.0000e-004	0.0000	0.3341

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3.17 16c - Three Lakes Rd - Replace Pavement - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	5.2000e-004	1.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2087	0.2087	1.0000e-005	0.0000	0.2088
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0415	0.0415	0.0000	0.0000	0.0416
Total	5.0000e-005	5.4000e-004	3.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	2.0000e-005	0.0000	3.0000e-005	0.0000	0.2502	0.2502	1.0000e-005	0.0000	0.2504

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6000e-004	1.4300e-003	2.4900e-003	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.3315	0.3315	1.0000e-004	0.0000	0.3341
Total	1.6000e-004	1.4300e-003	2.4900e-003	0.0000	5.0000e-005	6.0000e-005	1.1000e-004	1.0000e-005	6.0000e-005	7.0000e-005	0.0000	0.3315	0.3315	1.0000e-004	0.0000	0.3341

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3.17 16c - Three Lakes Rd - Replace Pavement - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	5.2000e-004	1.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.2087	0.2087	1.0000e-005	0.0000	0.2088
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	2.0000e-005	2.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0415	0.0415	0.0000	0.0000	0.0416
Total	5.0000e-005	5.4000e-004	3.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	2.0000e-005	0.0000	3.0000e-005	0.0000	0.2502	0.2502	1.0000e-005	0.0000	0.2504

3.18 16d - Three Lakes Rd - Unplug Culverts - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9000e-004	0.0100	0.0167	2.0000e-005		4.1000e-004	4.1000e-004		3.7000e-004	3.7000e-004	0.0000	2.0552	2.0552	6.6000e-004	0.0000	2.0718
Total	9.9000e-004	0.0100	0.0167	2.0000e-005		4.1000e-004	4.1000e-004		3.7000e-004	3.7000e-004	0.0000	2.0552	2.0552	6.6000e-004	0.0000	2.0718

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3.18 16d - Three Lakes Rd - Unplug Culverts - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.3000e-003	2.9000e-004	1.0000e-005	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.5217	0.5217	1.0000e-005	0.0000	0.5220
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.8000e-004	1.6300e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3115	0.3115	1.0000e-005	0.0000	0.3119
Total	3.2000e-004	1.4800e-003	1.9200e-003	1.0000e-005	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.8332	0.8332	2.0000e-005	0.0000	0.8339

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.9000e-004	0.0100	0.0167	2.0000e-005		4.1000e-004	4.1000e-004		3.7000e-004	3.7000e-004	0.0000	2.0552	2.0552	6.6000e-004	0.0000	2.0718
Total	9.9000e-004	0.0100	0.0167	2.0000e-005		4.1000e-004	4.1000e-004		3.7000e-004	3.7000e-004	0.0000	2.0552	2.0552	6.6000e-004	0.0000	2.0718

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3.18 16d - Three Lakes Rd - Unplug Culverts - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.3000e-003	2.9000e-004	1.0000e-005	1.6000e-004	0.0000	1.7000e-004	4.0000e-005	0.0000	5.0000e-005	0.0000	0.5217	0.5217	1.0000e-005	0.0000	0.5220
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.8000e-004	1.6300e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3115	0.3115	1.0000e-005	0.0000	0.3119
Total	3.2000e-004	1.4800e-003	1.9200e-003	1.0000e-005	5.3000e-004	0.0000	5.4000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.8332	0.8332	2.0000e-005	0.0000	0.8339

3.19 16h - Three Lakes Rd - Water Crossings - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8300e-003	0.0407	0.0651	1.6000e-004		1.6200e-003	1.6200e-003		1.4900e-003	1.4900e-003	0.0000	14.1662	14.1662	4.5800e-003	0.0000	14.2807
Total	5.8300e-003	0.0407	0.0651	1.6000e-004		1.6200e-003	1.6200e-003		1.4900e-003	1.4900e-003	0.0000	14.1662	14.1662	4.5800e-003	0.0000	14.2807

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3.19 16h - Three Lakes Rd - Water Crossings - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.6000e-004	1.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2236	0.2236	1.0000e-005	0.0000	0.2237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	3.5000e-004	3.2500e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.4000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.6230	0.6230	3.0000e-005	0.0000	0.6237
Total	5.8000e-004	9.1000e-004	3.3700e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.8466	0.8466	4.0000e-005	0.0000	0.8475

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.8300e-003	0.0407	0.0651	1.6000e-004		1.6200e-003	1.6200e-003		1.4900e-003	1.4900e-003	0.0000	14.1661	14.1661	4.5800e-003	0.0000	14.2807
Total	5.8300e-003	0.0407	0.0651	1.6000e-004		1.6200e-003	1.6200e-003		1.4900e-003	1.4900e-003	0.0000	14.1661	14.1661	4.5800e-003	0.0000	14.2807

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3.19 16h - Three Lakes Rd - Water Crossings - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-005	5.6000e-004	1.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2236	0.2236	1.0000e-005	0.0000	0.2237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.6000e-004	3.5000e-004	3.2500e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.4000e-004	2.0000e-004	1.0000e-005	2.0000e-004	0.0000	0.6230	0.6230	3.0000e-005	0.0000	0.6237
Total	5.8000e-004	9.1000e-004	3.3700e-003	1.0000e-005	8.0000e-004	1.0000e-005	8.1000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.8466	0.8466	4.0000e-005	0.0000	0.8475

3.20 26d - Mill Creek Campground - Repave - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1259	0.2043	3.1000e-004		6.2800e-003	6.2800e-003		5.7800e-003	5.7800e-003	0.0000	27.3513	27.3513	8.8500e-003	0.0000	27.5724
Total	0.0132	0.1259	0.2043	3.1000e-004	3.8000e-004	6.2800e-003	6.6600e-003	4.0000e-005	5.7800e-003	5.8200e-003	0.0000	27.3513	27.3513	8.8500e-003	0.0000	27.5724

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3.20 26d - Mill Creek Campground - Repave - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7000e-004	9.4000e-003	2.0700e-003	4.0000e-005	1.1500e-003	3.0000e-005	1.1800e-003	3.1000e-004	3.0000e-005	3.4000e-004	0.0000	3.7612	3.7612	9.0000e-005	0.0000	3.7635
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5800e-003	1.6400e-003	0.0151	3.0000e-005	3.4100e-003	3.0000e-005	3.4400e-003	9.1000e-004	3.0000e-005	9.3000e-004	0.0000	2.8969	2.8969	1.3000e-004	0.0000	2.9003
Total	2.8500e-003	0.0110	0.0172	7.0000e-005	4.5600e-003	6.0000e-005	4.6200e-003	1.2200e-003	6.0000e-005	1.2700e-003	0.0000	6.6581	6.6581	2.2000e-004	0.0000	6.6638

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0132	0.1259	0.2043	3.1000e-004		6.2800e-003	6.2800e-003		5.7800e-003	5.7800e-003	0.0000	27.3513	27.3513	8.8500e-003	0.0000	27.5724
Total	0.0132	0.1259	0.2043	3.1000e-004	3.8000e-004	6.2800e-003	6.6600e-003	4.0000e-005	5.7800e-003	5.8200e-003	0.0000	27.3513	27.3513	8.8500e-003	0.0000	27.5724

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3.20 26d - Mill Creek Campground - Repave - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.7000e-004	9.4000e-003	2.0700e-003	4.0000e-005	1.1500e-003	3.0000e-005	1.1800e-003	3.1000e-004	3.0000e-005	3.4000e-004	0.0000	3.7612	3.7612	9.0000e-005	0.0000	3.7635
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5800e-003	1.6400e-003	0.0151	3.0000e-005	3.4100e-003	3.0000e-005	3.4400e-003	9.1000e-004	3.0000e-005	9.3000e-004	0.0000	2.8969	2.8969	1.3000e-004	0.0000	2.9003
Total	2.8500e-003	0.0110	0.0172	7.0000e-005	4.5600e-003	6.0000e-005	4.6200e-003	1.2200e-003	6.0000e-005	1.2700e-003	0.0000	6.6581	6.6581	2.2000e-004	0.0000	6.6638

3.21 28a - Sandy Point Day Use - Replace Roadway - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2000e-004	0.0000	2.2000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0342	0.2952	0.3213	7.3000e-004		0.0128	0.0128		0.0118	0.0118	0.0000	64.5445	64.5445	0.0209	0.0000	65.0664
Total	0.0342	0.2952	0.3213	7.3000e-004	2.2000e-004	0.0128	0.0131	2.0000e-005	0.0118	0.0118	0.0000	64.5445	64.5445	0.0209	0.0000	65.0664

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3.21 28a - Sandy Point Day Use - Replace Roadway - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.1000e-004	0.0212	4.6700e-003	9.0000e-005	2.6200e-003	7.0000e-005	2.6900e-003	7.0000e-004	7.0000e-005	7.7000e-004	0.0000	8.4965	8.4965	2.1000e-004	0.0000	8.5017
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9600e-003	1.8900e-003	0.0173	4.0000e-005	3.9100e-003	3.0000e-005	3.9400e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.3226	3.3226	1.5000e-004	0.0000	3.3265
Total	3.5700e-003	0.0231	0.0220	1.3000e-004	6.5300e-003	1.0000e-004	6.6300e-003	1.7400e-003	1.0000e-004	1.8400e-003	0.0000	11.8192	11.8192	3.6000e-004	0.0000	11.8282

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.2000e-004	0.0000	2.2000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0342	0.2952	0.3213	7.3000e-004		0.0128	0.0128		0.0118	0.0118	0.0000	64.5445	64.5445	0.0209	0.0000	65.0663
Total	0.0342	0.2952	0.3213	7.3000e-004	2.2000e-004	0.0128	0.0131	2.0000e-005	0.0118	0.0118	0.0000	64.5445	64.5445	0.0209	0.0000	65.0663

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3.21 28a - Sandy Point Day Use - Replace Roadway - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.1000e-004	0.0212	4.6700e-003	9.0000e-005	2.6200e-003	7.0000e-005	2.6900e-003	7.0000e-004	7.0000e-005	7.7000e-004	0.0000	8.4965	8.4965	2.1000e-004	0.0000	8.5017
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9600e-003	1.8900e-003	0.0173	4.0000e-005	3.9100e-003	3.0000e-005	3.9400e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.3226	3.3226	1.5000e-004	0.0000	3.3265
Total	3.5700e-003	0.0231	0.0220	1.3000e-004	6.5300e-003	1.0000e-004	6.6300e-003	1.7400e-003	1.0000e-004	1.8400e-003	0.0000	11.8192	11.8192	3.6000e-004	0.0000	11.8282

3.22 28b - Sandy Point Day Use - Reconstruct - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6000e-004	0.0000	7.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0402	0.3402	0.3488	8.8000e-004		0.0143	0.0143		0.0133	0.0133	0.0000	76.8722	76.8722	0.0216	0.0000	77.4128
Total	0.0402	0.3402	0.3488	8.8000e-004	7.6000e-004	0.0143	0.0151	8.0000e-005	0.0133	0.0134	0.0000	76.8722	76.8722	0.0216	0.0000	77.4128

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3.22 28b - Sandy Point Day Use - Reconstruct - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-004	0.0177	3.8900e-003	7.0000e-005	2.1800e-003	6.0000e-005	2.2400e-003	5.8000e-004	6.0000e-005	6.4000e-004	0.0000	7.0804	7.0804	1.7000e-004	0.0000	7.0848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-003	2.3600e-003	0.0217	5.0000e-005	4.8900e-003	4.0000e-005	4.9300e-003	1.3000e-003	4.0000e-005	1.3400e-003	0.0000	4.1533	4.1533	1.9000e-004	0.0000	4.1581
Total	4.2000e-003	0.0201	0.0256	1.2000e-004	7.0700e-003	1.0000e-004	7.1700e-003	1.8800e-003	1.0000e-004	1.9800e-003	0.0000	11.2337	11.2337	3.6000e-004	0.0000	11.2429

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.6000e-004	0.0000	7.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0402	0.3402	0.3488	8.8000e-004		0.0143	0.0143		0.0133	0.0133	0.0000	76.8721	76.8721	0.0216	0.0000	77.4127
Total	0.0402	0.3402	0.3488	8.8000e-004	7.6000e-004	0.0143	0.0151	8.0000e-005	0.0133	0.0134	0.0000	76.8721	76.8721	0.0216	0.0000	77.4127

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3.22 28b - Sandy Point Day Use - Reconstruct - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.0000e-004	0.0177	3.8900e-003	7.0000e-005	2.1800e-003	6.0000e-005	2.2400e-003	5.8000e-004	6.0000e-005	6.4000e-004	0.0000	7.0804	7.0804	1.7000e-004	0.0000	7.0848
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-003	2.3600e-003	0.0217	5.0000e-005	4.8900e-003	4.0000e-005	4.9300e-003	1.3000e-003	4.0000e-005	1.3400e-003	0.0000	4.1533	4.1533	1.9000e-004	0.0000	4.1581
Total	4.2000e-003	0.0201	0.0256	1.2000e-004	7.0700e-003	1.0000e-004	7.1700e-003	1.8800e-003	1.0000e-004	1.9800e-003	0.0000	11.2337	11.2337	3.6000e-004	0.0000	11.2429

3.23 28c - Sandy Point Day Use - Culvert Replacement - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5700e-003	0.0343	0.0526	1.2000e-004		1.4500e-003	1.4500e-003		1.3300e-003	1.3300e-003	0.0000	10.5965	10.5965	3.4300e-003	0.0000	10.6822
Total	4.5700e-003	0.0343	0.0526	1.2000e-004	0.0000	1.4500e-003	1.4500e-003	0.0000	1.3300e-003	1.3300e-003	0.0000	10.5965	10.5965	3.4300e-003	0.0000	10.6822

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3.23 28c - Sandy Point Day Use - Culvert Replacement - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.4900e-003	3.3000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.5963	0.5963	1.0000e-005	0.0000	0.5966
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	2.9000e-004	2.7100e-003	1.0000e-005	6.1000e-004	1.0000e-005	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5192	0.5192	2.0000e-005	0.0000	0.5198
Total	5.0000e-004	1.7800e-003	3.0400e-003	2.0000e-005	7.9000e-004	2.0000e-005	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	1.1154	1.1154	3.0000e-005	0.0000	1.1164

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.5700e-003	0.0343	0.0526	1.2000e-004		1.4500e-003	1.4500e-003		1.3300e-003	1.3300e-003	0.0000	10.5965	10.5965	3.4300e-003	0.0000	10.6822
Total	4.5700e-003	0.0343	0.0526	1.2000e-004	0.0000	1.4500e-003	1.4500e-003	0.0000	1.3300e-003	1.3300e-003	0.0000	10.5965	10.5965	3.4300e-003	0.0000	10.6822

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3.23 28c - Sandy Point Day Use - Culvert Replacement - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.4900e-003	3.3000e-004	1.0000e-005	1.8000e-004	1.0000e-005	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.5963	0.5963	1.0000e-005	0.0000	0.5966
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	2.9000e-004	2.7100e-003	1.0000e-005	6.1000e-004	1.0000e-005	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.5192	0.5192	2.0000e-005	0.0000	0.5198
Total	5.0000e-004	1.7800e-003	3.0400e-003	2.0000e-005	7.9000e-004	2.0000e-005	8.1000e-004	2.1000e-004	0.0000	2.2000e-004	0.0000	1.1154	1.1154	3.0000e-005	0.0000	1.1164

3.24 28d - Sandy Point Day Use - Unplug Culverts - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3000e-004	3.3400e-003	5.5700e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.2000e-004	1.2000e-004	0.0000	0.6851	0.6851	2.2000e-004	0.0000	0.6906
Total	3.3000e-004	3.3400e-003	5.5700e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.2000e-004	1.2000e-004	0.0000	0.6851	0.6851	2.2000e-004	0.0000	0.6906

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3.24 28d - Sandy Point Day Use - Unplug Culverts - 2025**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.0400e-003	2.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4174	0.4174	1.0000e-005	0.0000	0.4176
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	5.4000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1040
Total	1.2000e-004	1.1000e-003	7.7000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.5212	0.5212	1.0000e-005	0.0000	0.5216

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.3000e-004	3.3400e-003	5.5700e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.2000e-004	1.2000e-004	0.0000	0.6851	0.6851	2.2000e-004	0.0000	0.6906
Total	3.3000e-004	3.3400e-003	5.5700e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.2000e-004	1.2000e-004	0.0000	0.6851	0.6851	2.2000e-004	0.0000	0.6906

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3.24 28d - Sandy Point Day Use - Unplug Culverts - 2025**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	1.0400e-003	2.3000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4174	0.4174	1.0000e-005	0.0000	0.4176
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.0000e-005	6.0000e-005	5.4000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1040
Total	1.2000e-004	1.1000e-003	7.7000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.5212	0.5212	1.0000e-005	0.0000	0.5216

3.25 16f - Three Lakes Rd - Culvert Replacement - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.5561	0.8522	1.9600e-003		0.0234	0.0234		0.0215	0.0215	0.0000	171.6635	171.6635	0.0555	0.0000	173.0515
Total	0.0740	0.5561	0.8522	1.9600e-003	4.0000e-005	0.0234	0.0235	1.0000e-005	0.0215	0.0216	0.0000	171.6635	171.6635	0.0555	0.0000	173.0515

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3.25 16f - Three Lakes Rd - Culvert Replacement - 2026**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0158	3.6500e-003	7.0000e-005	2.0300e-003	5.0000e-005	2.0800e-003	5.4000e-004	5.0000e-005	5.9000e-004	0.0000	6.6062	6.6062	1.6000e-004	0.0000	6.6101
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9500e-003	4.3100e-003	0.0400	9.0000e-005	9.9000e-003	8.0000e-005	9.9800e-003	2.6300e-003	8.0000e-005	2.7100e-003	0.0000	8.1147	8.1147	3.4000e-004	0.0000	8.1233
Total	7.4100e-003	0.0201	0.0436	1.6000e-004	0.0119	1.3000e-004	0.0121	3.1700e-003	1.3000e-004	3.3000e-003	0.0000	14.7209	14.7209	5.0000e-004	0.0000	14.7334

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0740	0.5561	0.8522	1.9600e-003		0.0234	0.0234		0.0215	0.0215	0.0000	171.6633	171.6633	0.0555	0.0000	173.0513
Total	0.0740	0.5561	0.8522	1.9600e-003	4.0000e-005	0.0234	0.0235	1.0000e-005	0.0215	0.0216	0.0000	171.6633	171.6633	0.0555	0.0000	173.0513

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3.25 16f - Three Lakes Rd - Culvert Replacement - 2026**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.6000e-004	0.0158	3.6500e-003	7.0000e-005	2.0300e-003	5.0000e-005	2.0800e-003	5.4000e-004	5.0000e-005	5.9000e-004	0.0000	6.6062	6.6062	1.6000e-004	0.0000	6.6101
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9500e-003	4.3100e-003	0.0400	9.0000e-005	9.9000e-003	8.0000e-005	9.9800e-003	2.6300e-003	8.0000e-005	2.7100e-003	0.0000	8.1147	8.1147	3.4000e-004	0.0000	8.1233
Total	7.4100e-003	0.0201	0.0436	1.6000e-004	0.0119	1.3000e-004	0.0121	3.1700e-003	1.3000e-004	3.3000e-003	0.0000	14.7209	14.7209	5.0000e-004	0.0000	14.7334

3.26 25a - Lower Bucks Campground - Reconstruct Entrance - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1919	0.2089	4.8000e-004		8.3400e-003	8.3400e-003		7.6700e-003	7.6700e-003	0.0000	41.9540	41.9540	0.0136	0.0000	42.2932
Total	0.0222	0.1919	0.2089	4.8000e-004	2.4000e-004	8.3400e-003	8.5800e-003	3.0000e-005	7.6700e-003	7.7000e-003	0.0000	41.9540	41.9540	0.0136	0.0000	42.2932

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3.26 25a - Lower Bucks Campground - Reconstruct Entrance - 2026**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0266	6.1300e-003	1.2000e-004	3.3300e-003	9.0000e-005	3.4200e-003	8.9000e-004	8.0000e-005	9.7000e-004	0.0000	11.1037	11.1037	2.6000e-004	0.0000	11.1103
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7800e-003	1.1100e-003	0.0103	2.0000e-005	2.5400e-003	2.0000e-005	2.5600e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.0838	2.0838	9.0000e-005	0.0000	2.0860
Total	2.5600e-003	0.0277	0.0164	1.4000e-004	5.8700e-003	1.1000e-004	5.9800e-003	1.5700e-003	1.0000e-004	1.6700e-003	0.0000	13.1875	13.1875	3.5000e-004	0.0000	13.1963

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.4000e-004	0.0000	2.4000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1919	0.2089	4.8000e-004		8.3400e-003	8.3400e-003		7.6700e-003	7.6700e-003	0.0000	41.9539	41.9539	0.0136	0.0000	42.2931
Total	0.0222	0.1919	0.2089	4.8000e-004	2.4000e-004	8.3400e-003	8.5800e-003	3.0000e-005	7.6700e-003	7.7000e-003	0.0000	41.9539	41.9539	0.0136	0.0000	42.2931

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3.26 25a - Lower Bucks Campground - Reconstruct Entrance - 2026**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.8000e-004	0.0266	6.1300e-003	1.2000e-004	3.3300e-003	9.0000e-005	3.4200e-003	8.9000e-004	8.0000e-005	9.7000e-004	0.0000	11.1037	11.1037	2.6000e-004	0.0000	11.1103
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7800e-003	1.1100e-003	0.0103	2.0000e-005	2.5400e-003	2.0000e-005	2.5600e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.0838	2.0838	9.0000e-005	0.0000	2.0860
Total	2.5600e-003	0.0277	0.0164	1.4000e-004	5.8700e-003	1.1000e-004	5.9800e-003	1.5700e-003	1.0000e-004	1.6700e-003	0.0000	13.1875	13.1875	3.5000e-004	0.0000	13.1963

3.27 25b - Lower Bucks Campground - Construct Roads - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3000e-004	0.0000	2.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1919	0.2089	4.8000e-004		8.3400e-003	8.3400e-003		7.6700e-003	7.6700e-003	0.0000	41.9540	41.9540	0.0136	0.0000	42.2932
Total	0.0222	0.1919	0.2089	4.8000e-004	2.3000e-004	8.3400e-003	8.5700e-003	3.0000e-005	7.6700e-003	7.7000e-003	0.0000	41.9540	41.9540	0.0136	0.0000	42.2932

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3.27 25b - Lower Bucks Campground - Construct Roads - 2026**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.1000e-004	0.0207	4.7700e-003	9.0000e-005	2.5900e-003	7.0000e-005	2.6600e-003	6.9000e-004	7.0000e-005	7.6000e-004	0.0000	8.6362	8.6362	2.1000e-004	0.0000	8.6414
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7800e-003	1.1100e-003	0.0103	2.0000e-005	2.5400e-003	2.0000e-005	2.5600e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.0838	2.0838	9.0000e-005	0.0000	2.0860
Total	2.3900e-003	0.0218	0.0150	1.1000e-004	5.1300e-003	9.0000e-005	5.2200e-003	1.3700e-003	9.0000e-005	1.4600e-003	0.0000	10.7200	10.7200	3.0000e-004	0.0000	10.7273

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3000e-004	0.0000	2.3000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.1919	0.2089	4.8000e-004		8.3400e-003	8.3400e-003		7.6700e-003	7.6700e-003	0.0000	41.9539	41.9539	0.0136	0.0000	42.2931
Total	0.0222	0.1919	0.2089	4.8000e-004	2.3000e-004	8.3400e-003	8.5700e-003	3.0000e-005	7.6700e-003	7.7000e-003	0.0000	41.9539	41.9539	0.0136	0.0000	42.2931

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3.27 25b - Lower Bucks Campground - Construct Roads - 2026**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.1000e-004	0.0207	4.7700e-003	9.0000e-005	2.5900e-003	7.0000e-005	2.6600e-003	6.9000e-004	7.0000e-005	7.6000e-004	0.0000	8.6362	8.6362	2.1000e-004	0.0000	8.6414
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7800e-003	1.1100e-003	0.0103	2.0000e-005	2.5400e-003	2.0000e-005	2.5600e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.0838	2.0838	9.0000e-005	0.0000	2.0860
Total	2.3900e-003	0.0218	0.0150	1.1000e-004	5.1300e-003	9.0000e-005	5.2200e-003	1.3700e-003	9.0000e-005	1.4600e-003	0.0000	10.7200	10.7200	3.0000e-004	0.0000	10.7273

3.28 16e - Three Lakes Rd - Ditches - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0557	0.4188	0.6418	1.4700e-003		0.0176	0.0176		0.0162	0.0162	0.0000	129.2775	129.2775	0.0418	0.0000	130.3227
Total	0.0557	0.4188	0.6418	1.4700e-003	7.0000e-005	0.0176	0.0177	1.0000e-005	0.0162	0.0162	0.0000	129.2775	129.2775	0.0418	0.0000	130.3227

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3.28 16e - Three Lakes Rd - Ditches - 2027**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.1000e-004	0.0235	5.6900e-003	1.1000e-004	3.1500e-003	7.0000e-005	3.2300e-003	8.4000e-004	7.0000e-005	9.1000e-004	0.0000	10.2733	10.2733	2.4000e-004	0.0000	10.2793
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-003	2.9400e-003	0.0277	7.0000e-005	7.4500e-003	6.0000e-005	7.5100e-003	1.9800e-003	6.0000e-005	2.0400e-003	0.0000	5.9081	5.9081	2.3000e-004	0.0000	5.9139
Total	5.6100e-003	0.0265	0.0333	1.8000e-004	0.0106	1.3000e-004	0.0107	2.8200e-003	1.3000e-004	2.9500e-003	0.0000	16.1815	16.1815	4.7000e-004	0.0000	16.1932

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.0000e-005	0.0000	7.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0557	0.4188	0.6418	1.4700e-003		0.0176	0.0176		0.0162	0.0162	0.0000	129.2773	129.2773	0.0418	0.0000	130.3226
Total	0.0557	0.4188	0.6418	1.4700e-003	7.0000e-005	0.0176	0.0177	1.0000e-005	0.0162	0.0162	0.0000	129.2773	129.2773	0.0418	0.0000	130.3226

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3.28 16e - Three Lakes Rd - Ditches - 2027**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	7.1000e-004	0.0235	5.6900e-003	1.1000e-004	3.1500e-003	7.0000e-005	3.2300e-003	8.4000e-004	7.0000e-005	9.1000e-004	0.0000	10.2733	10.2733	2.4000e-004	0.0000	10.2793
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-003	2.9400e-003	0.0277	7.0000e-005	7.4500e-003	6.0000e-005	7.5100e-003	1.9800e-003	6.0000e-005	2.0400e-003	0.0000	5.9081	5.9081	2.3000e-004	0.0000	5.9139
Total	5.6100e-003	0.0265	0.0333	1.8000e-004	0.0106	1.3000e-004	0.0107	2.8200e-003	1.3000e-004	2.9500e-003	0.0000	16.1815	16.1815	4.7000e-004	0.0000	16.1932

3.29 17c - Bucks Penstock Rd - Ditches - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1100e-003	0.0309	0.0474	1.1000e-004		1.3000e-003	1.3000e-003		1.2000e-003	1.2000e-003	0.0000	9.5369	9.5369	3.0800e-003	0.0000	9.6140
Total	4.1100e-003	0.0309	0.0474	1.1000e-004	0.0000	1.3000e-003	1.3000e-003	0.0000	1.2000e-003	1.2000e-003	0.0000	9.5369	9.5369	3.0800e-003	0.0000	9.6140

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3.29 17c - Bucks Penstock Rd - Ditches - 2027**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	8.5000e-004	2.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3717	0.3717	1.0000e-005	0.0000	0.3720
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.2000e-004	2.0400e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4358	0.4358	2.0000e-005	0.0000	0.4363
Total	3.9000e-004	1.0700e-003	2.2500e-003	0.0000	6.5000e-004	0.0000	6.5000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.8076	0.8076	3.0000e-005	0.0000	0.8082

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.1100e-003	0.0309	0.0474	1.1000e-004		1.3000e-003	1.3000e-003		1.2000e-003	1.2000e-003	0.0000	9.5369	9.5369	3.0800e-003	0.0000	9.6140
Total	4.1100e-003	0.0309	0.0474	1.1000e-004	0.0000	1.3000e-003	1.3000e-003	0.0000	1.2000e-003	1.2000e-003	0.0000	9.5369	9.5369	3.0800e-003	0.0000	9.6140

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3.29 17c - Bucks Penstock Rd - Ditches - 2027**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	8.5000e-004	2.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.3717	0.3717	1.0000e-005	0.0000	0.3720
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.6000e-004	2.2000e-004	2.0400e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4358	0.4358	2.0000e-005	0.0000	0.4363
Total	3.9000e-004	1.0700e-003	2.2500e-003	0.0000	6.5000e-004	0.0000	6.5000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.8076	0.8076	3.0000e-005	0.0000	0.8082

3.30 26c - Mill Creek Campground - Unplug Culverts - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0000e-004	2.0000e-003	3.3400e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.4110	0.4110	1.3000e-004	0.0000	0.4144
Total	2.0000e-004	2.0000e-003	3.3400e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.4110	0.4110	1.3000e-004	0.0000	0.4144

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3.30 26c - Mill Creek Campground - Unplug Culverts - 2027**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.5000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1549	0.1549	0.0000	0.0000	0.1550
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	2.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0581	0.0581	0.0000	0.0000	0.0582
Total	6.0000e-005	3.8000e-004	3.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2130	0.2130	0.0000	0.0000	0.2132

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.0000e-004	2.0000e-003	3.3400e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.4110	0.4110	1.3000e-004	0.0000	0.4144
Total	2.0000e-004	2.0000e-003	3.3400e-003	0.0000		8.0000e-005	8.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.4110	0.4110	1.3000e-004	0.0000	0.4144

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3.30 26c - Mill Creek Campground - Unplug Culverts - 2027**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.5000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1549	0.1549	0.0000	0.0000	0.1550
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	2.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0581	0.0581	0.0000	0.0000	0.0582
Total	6.0000e-005	3.8000e-004	3.6000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2130	0.2130	0.0000	0.0000	0.2132

3.31 23b - Haskins Valley Campground - Ditches - 2028**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7200e-003	0.0190	0.0304	8.0000e-005		7.6000e-004	7.6000e-004		7.0000e-004	7.0000e-004	0.0000	6.6109	6.6109	2.1400e-003	0.0000	6.6643
Total	2.7200e-003	0.0190	0.0304	8.0000e-005	0.0000	7.6000e-004	7.6000e-004	0.0000	7.0000e-004	7.0000e-004	0.0000	6.6109	6.6109	2.1400e-003	0.0000	6.6643

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3.31 23b - Haskins Valley Campground - Ditches - 2028**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.8000e-004	1.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2158	0.2158	0.0000	0.0000	0.2159
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.2000e-004	1.1600e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2627	0.2627	1.0000e-005	0.0000	0.2630
Total	2.2000e-004	6.0000e-004	1.2800e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4785	0.4785	1.0000e-005	0.0000	0.4789

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7200e-003	0.0190	0.0304	8.0000e-005		7.6000e-004	7.6000e-004		7.0000e-004	7.0000e-004	0.0000	6.6109	6.6109	2.1400e-003	0.0000	6.6643
Total	2.7200e-003	0.0190	0.0304	8.0000e-005	0.0000	7.6000e-004	7.6000e-004	0.0000	7.0000e-004	7.0000e-004	0.0000	6.6109	6.6109	2.1400e-003	0.0000	6.6643

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3.31 23b - Haskins Valley Campground - Ditches - 2028**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	4.8000e-004	1.2000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2158	0.2158	0.0000	0.0000	0.2159
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.2000e-004	1.1600e-003	0.0000	3.4000e-004	0.0000	3.4000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2627	0.2627	1.0000e-005	0.0000	0.2630
Total	2.2000e-004	6.0000e-004	1.2800e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.4785	0.4785	1.0000e-005	0.0000	0.4789

3.32 18a - Grizzly Forebay Rd - Culvert Replacement - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0300e-003	0.0378	0.0579	1.3000e-004		1.5900e-003	1.5900e-003		1.4600e-003	1.4600e-003	0.0000	11.6562	11.6562	3.7700e-003	0.0000	11.7504
Total	5.0300e-003	0.0378	0.0579	1.3000e-004	0.0000	1.5900e-003	1.5900e-003	0.0000	1.4600e-003	1.4600e-003	0.0000	11.6562	11.6562	3.7700e-003	0.0000	11.7504

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3.32 18a - Grizzly Forebay Rd - Culvert Replacement - 2029**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6427	0.6427	1.0000e-005	0.0000	0.6431
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.1000e-004	2.0800e-003	1.0000e-005	6.7000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5010	0.5010	2.0000e-005	0.0000	0.5014
Total	4.1000e-004	1.5800e-003	2.4400e-003	2.0000e-005	8.6000e-004	0.0000	8.7000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	1.1438	1.1438	3.0000e-005	0.0000	1.1445

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0300e-003	0.0378	0.0579	1.3000e-004		1.5900e-003	1.5900e-003		1.4600e-003	1.4600e-003	0.0000	11.6562	11.6562	3.7700e-003	0.0000	11.7504
Total	5.0300e-003	0.0378	0.0579	1.3000e-004	0.0000	1.5900e-003	1.5900e-003	0.0000	1.4600e-003	1.4600e-003	0.0000	11.6562	11.6562	3.7700e-003	0.0000	11.7504

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3.32 18a - Grizzly Forebay Rd - Culvert Replacement - 2029**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6427	0.6427	1.0000e-005	0.0000	0.6431
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.1000e-004	2.0800e-003	1.0000e-005	6.7000e-004	0.0000	6.8000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.5010	0.5010	2.0000e-005	0.0000	0.5014
Total	4.1000e-004	1.5800e-003	2.4400e-003	2.0000e-005	8.6000e-004	0.0000	8.7000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	1.1438	1.1438	3.0000e-005	0.0000	1.1445

3.33 18b - Grizzly Forebay Rd - Unplug Culverts - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.3400e-003	0.0123	2.0000e-005		3.0000e-004	3.0000e-004		2.7000e-004	2.7000e-004	0.0000	1.5071	1.5071	4.9000e-004	0.0000	1.5193
Total	7.3000e-004	7.3400e-003	0.0123	2.0000e-005		3.0000e-004	3.0000e-004		2.7000e-004	2.7000e-004	0.0000	1.5071	1.5071	4.9000e-004	0.0000	1.5193

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3.33 18b - Grizzly Forebay Rd - Unplug Culverts - 2029**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	8.6000e-004	2.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4017	0.4017	1.0000e-005	0.0000	0.4019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	8.0000e-005	8.3000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2004	0.2004	1.0000e-005	0.0000	0.2006
Total	1.8000e-004	9.4000e-004	1.0600e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.6021	0.6021	2.0000e-005	0.0000	0.6025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3000e-004	7.3400e-003	0.0123	2.0000e-005		3.0000e-004	3.0000e-004		2.7000e-004	2.7000e-004	0.0000	1.5071	1.5071	4.9000e-004	0.0000	1.5193
Total	7.3000e-004	7.3400e-003	0.0123	2.0000e-005		3.0000e-004	3.0000e-004		2.7000e-004	2.7000e-004	0.0000	1.5071	1.5071	4.9000e-004	0.0000	1.5193

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3.33 18b - Grizzly Forebay Rd - Unplug Culverts - 2029**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	8.6000e-004	2.3000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4017	0.4017	1.0000e-005	0.0000	0.4019
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	8.0000e-005	8.3000e-004	0.0000	2.7000e-004	0.0000	2.7000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.2004	0.2004	1.0000e-005	0.0000	0.2006
Total	1.8000e-004	9.4000e-004	1.0600e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.6021	0.6021	2.0000e-005	0.0000	0.6025

3.34 18c - Grizzly Forebay Rd - Replace Pavement - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-005	0.0000	8.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3100e-003	0.0240	0.0346	9.0000e-005		9.5000e-004	9.5000e-004		8.8000e-004	8.8000e-004	0.0000	7.8821	7.8821	2.5500e-003	0.0000	7.9458
Total	3.3100e-003	0.0240	0.0346	9.0000e-005	8.0000e-005	9.5000e-004	1.0300e-003	1.0000e-005	8.8000e-004	8.9000e-004	0.0000	7.8821	7.8821	2.5500e-003	0.0000	7.9458

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3.34 18c - Grizzly Forebay Rd - Replace Pavement - 2029**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	3.5000e-004	1.0000e-005	3.5000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.1503	1.1503	3.0000e-005	0.0000	1.1510
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.4000e-004	1.3600e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3279	0.3279	1.0000e-005	0.0000	0.3282
Total	3.2000e-004	2.6000e-003	2.0100e-003	1.0000e-005	7.9000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	1.4783	1.4783	4.0000e-005	0.0000	1.4792

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.0000e-005	0.0000	8.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3100e-003	0.0240	0.0346	9.0000e-005		9.5000e-004	9.5000e-004		8.8000e-004	8.8000e-004	0.0000	7.8821	7.8821	2.5500e-003	0.0000	7.9458
Total	3.3100e-003	0.0240	0.0346	9.0000e-005	8.0000e-005	9.5000e-004	1.0300e-003	1.0000e-005	8.8000e-004	8.9000e-004	0.0000	7.8821	7.8821	2.5500e-003	0.0000	7.9458

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3.34 18c - Grizzly Forebay Rd - Replace Pavement - 2029**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	2.4600e-003	6.5000e-004	1.0000e-005	3.5000e-004	1.0000e-005	3.5000e-004	9.0000e-005	1.0000e-005	1.0000e-004	0.0000	1.1503	1.1503	3.0000e-005	0.0000	1.1510
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.4000e-004	1.3600e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3279	0.3279	1.0000e-005	0.0000	0.3282
Total	3.2000e-004	2.6000e-003	2.0100e-003	1.0000e-005	7.9000e-004	1.0000e-005	7.9000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	1.4783	1.4783	4.0000e-005	0.0000	1.4792

3.35 24d - Hutchins Group Campground - Replace Pavement - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-004	0.0000	2.0000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3100e-003	0.0240	0.0346	9.0000e-005		9.5000e-004	9.5000e-004		8.8000e-004	8.8000e-004	0.0000	7.8821	7.8821	2.5500e-003	0.0000	7.9458
Total	3.3100e-003	0.0240	0.0346	9.0000e-005	2.0000e-004	9.5000e-004	1.1500e-003	2.0000e-005	8.8000e-004	9.0000e-004	0.0000	7.8821	7.8821	2.5500e-003	0.0000	7.9458

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3.35 24d - Hutchins Group Campground - Replace Pavement - 2029**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	3.2800e-003	8.6000e-004	2.0000e-005	4.6000e-004	1.0000e-005	4.7000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.5338	1.5338	3.0000e-005	0.0000	1.5346
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.4000e-004	1.3600e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3279	0.3279	1.0000e-005	0.0000	0.3282
Total	3.4000e-004	3.4200e-003	2.2200e-003	2.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	1.8617	1.8617	4.0000e-005	0.0000	1.8628

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-004	0.0000	2.0000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3100e-003	0.0240	0.0346	9.0000e-005		9.5000e-004	9.5000e-004		8.8000e-004	8.8000e-004	0.0000	7.8821	7.8821	2.5500e-003	0.0000	7.9458
Total	3.3100e-003	0.0240	0.0346	9.0000e-005	2.0000e-004	9.5000e-004	1.1500e-003	2.0000e-005	8.8000e-004	9.0000e-004	0.0000	7.8821	7.8821	2.5500e-003	0.0000	7.9458

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3.35 24d - Hutchins Group Campground - Replace Pavement - 2029**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	3.2800e-003	8.6000e-004	2.0000e-005	4.6000e-004	1.0000e-005	4.7000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.5338	1.5338	3.0000e-005	0.0000	1.5346
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.4000e-004	1.3600e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3279	0.3279	1.0000e-005	0.0000	0.3282
Total	3.4000e-004	3.4200e-003	2.2200e-003	2.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	1.8617	1.8617	4.0000e-005	0.0000	1.8628

3.36 22b - Grizzly Powerhouse Rd - Unplug Culverts - 2030**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7000e-004	1.0300e-003	2.3500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3263	0.3263	1.0000e-005	0.0000	0.3267
Total	1.7000e-004	1.0300e-003	2.3500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3263	0.3263	1.0000e-005	0.0000	0.3267

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3.36 22b - Grizzly Powerhouse Rd - Unplug Culverts - 2030**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	9.8000e-004	2.7000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4752	0.4752	1.0000e-005	0.0000	0.4754
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.4000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0355	0.0355	0.0000	0.0000	0.0355
Total	5.0000e-005	9.9000e-004	4.1000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.5106	0.5106	1.0000e-005	0.0000	0.5109

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7000e-004	1.0300e-003	2.3500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3263	0.3263	1.0000e-005	0.0000	0.3267
Total	1.7000e-004	1.0300e-003	2.3500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3263	0.3263	1.0000e-005	0.0000	0.3267

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3.36 22b - Grizzly Powerhouse Rd - Unplug Culverts - 2030**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-005	9.8000e-004	2.7000e-004	0.0000	1.6000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.4752	0.4752	1.0000e-005	0.0000	0.4754
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.4000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0355	0.0355	0.0000	0.0000	0.0355
Total	5.0000e-005	9.9000e-004	4.1000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.5106	0.5106	1.0000e-005	0.0000	0.5109

3.37 22a - Grizzly Powerhouse Rd - Culvert Replacement - 2031**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.1120	0.3141	7.8000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	73.5935	73.5935	2.6600e-003	0.0000	73.6599
Total	0.0331	0.1120	0.3141	7.8000e-004	2.0000e-005	3.6100e-003	3.6300e-003	0.0000	3.6100e-003	3.6100e-003	0.0000	73.5935	73.5935	2.6600e-003	0.0000	73.6599

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3.37 22a - Grizzly Powerhouse Rd - Culvert Replacement - 2031**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	5.1800e-003	1.4600e-003	3.0000e-005	8.1000e-004	1.0000e-005	8.2000e-004	2.1000e-004	1.0000e-005	2.3000e-004	0.0000	2.5734	2.5734	6.0000e-005	0.0000	2.5747
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6300e-003	8.8000e-004	9.2000e-003	3.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.5067	2.5067	7.0000e-005	0.0000	2.5084
Total	1.8000e-003	6.0600e-003	0.0107	6.0000e-005	4.3500e-003	3.0000e-005	4.3800e-003	1.1500e-003	3.0000e-005	1.1900e-003	0.0000	5.0800	5.0800	1.3000e-004	0.0000	5.0831

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.1120	0.3141	7.8000e-004		3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003	0.0000	73.5934	73.5934	2.6600e-003	0.0000	73.6598
Total	0.0331	0.1120	0.3141	7.8000e-004	2.0000e-005	3.6100e-003	3.6300e-003	0.0000	3.6100e-003	3.6100e-003	0.0000	73.5934	73.5934	2.6600e-003	0.0000	73.6598

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3.37 22a - Grizzly Powerhouse Rd - Culvert Replacement - 2031**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.7000e-004	5.1800e-003	1.4600e-003	3.0000e-005	8.1000e-004	1.0000e-005	8.2000e-004	2.1000e-004	1.0000e-005	2.3000e-004	0.0000	2.5734	2.5734	6.0000e-005	0.0000	2.5747
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6300e-003	8.8000e-004	9.2000e-003	3.0000e-005	3.5400e-003	2.0000e-005	3.5600e-003	9.4000e-004	2.0000e-005	9.6000e-004	0.0000	2.5067	2.5067	7.0000e-005	0.0000	2.5084
Total	1.8000e-003	6.0600e-003	0.0107	6.0000e-005	4.3500e-003	3.0000e-005	4.3800e-003	1.1500e-003	3.0000e-005	1.1900e-003	0.0000	5.0800	5.0800	1.3000e-004	0.0000	5.0831

3.38 22c - Grizzly Powerhouse Rd - Culvert Outfall - 2031**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0000e-005	5.1000e-004	1.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1632	0.1632	1.0000e-005	0.0000	0.1633
Total	9.0000e-005	5.1000e-004	1.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1632	0.1632	1.0000e-005	0.0000	0.1633

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3.38 22c - Grizzly Powerhouse Rd - Culvert Outfall - 2031**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.0000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1014	0.1014	0.0000	0.0000	0.1015
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0173	0.0173	0.0000	0.0000	0.0173
Total	2.0000e-005	2.1000e-004	1.2000e-004	0.0000	4.0000e-005	0.0000	5.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1187	0.1187	0.0000	0.0000	0.1188

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.0000e-005	5.1000e-004	1.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1632	0.1632	1.0000e-005	0.0000	0.1633
Total	9.0000e-005	5.1000e-004	1.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1632	0.1632	1.0000e-005	0.0000	0.1633

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3.38 22c - Grizzly Powerhouse Rd - Culvert Outfall - 2031**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	2.0000e-004	6.0000e-005	0.0000	2.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1014	0.1014	0.0000	0.0000	0.1015
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0173	0.0173	0.0000	0.0000	0.0173
Total	2.0000e-005	2.1000e-004	1.2000e-004	0.0000	4.0000e-005	0.0000	5.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1187	0.1187	0.0000	0.0000	0.1188

3.39 21a - Grizzly Portal Rd - Culvert Replacement - 2033**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0444	0.1246	3.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	29.1836	29.1836	1.0500e-003	0.0000	29.2100
Total	0.0131	0.0444	0.1246	3.1000e-004	1.0000e-005	1.4300e-003	1.4400e-003	0.0000	1.4300e-003	1.4300e-003	0.0000	29.1836	29.1836	1.0500e-003	0.0000	29.2100

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3.39 21a - Grizzly Portal Rd - Culvert Replacement - 2033**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	1.7200e-003	5.1000e-004	1.0000e-005	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.8968	0.8968	2.0000e-005	0.0000	0.8973
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	2.8000e-004	3.0900e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	0.9516	0.9516	2.0000e-005	0.0000	0.9522
Total	5.9000e-004	2.0000e-003	3.6000e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.6900e-003	4.4000e-004	1.0000e-005	4.6000e-004	0.0000	1.8484	1.8484	4.0000e-005	0.0000	1.8494

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0444	0.1246	3.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	29.1836	29.1836	1.0500e-003	0.0000	29.2099
Total	0.0131	0.0444	0.1246	3.1000e-004	1.0000e-005	1.4300e-003	1.4400e-003	0.0000	1.4300e-003	1.4300e-003	0.0000	29.1836	29.1836	1.0500e-003	0.0000	29.2099

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3.39 21a - Grizzly Portal Rd - Culvert Replacement - 2033**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	1.7200e-003	5.1000e-004	1.0000e-005	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.8968	0.8968	2.0000e-005	0.0000	0.8973
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.3000e-004	2.8000e-004	3.0900e-003	1.0000e-005	1.4100e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	0.9516	0.9516	2.0000e-005	0.0000	0.9522
Total	5.9000e-004	2.0000e-003	3.6000e-003	2.0000e-005	1.6900e-003	1.0000e-005	1.6900e-003	4.4000e-004	1.0000e-005	4.6000e-004	0.0000	1.8484	1.8484	4.0000e-005	0.0000	1.8494

3.40 21b - Grizzly Portal Rd - Unplug Culverts - 2033**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7000e-004	1.0300e-003	2.3500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3263	0.3263	1.0000e-005	0.0000	0.3267
Total	1.7000e-004	1.0300e-003	2.3500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3263	0.3263	1.0000e-005	0.0000	0.3267

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3.40 21b - Grizzly Portal Rd - Unplug Culverts - 2033**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.9000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.2015	0.2015	0.0000	0.0000	0.2016
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0331	0.0331	0.0000	0.0000	0.0331
Total	3.0000e-005	4.0000e-004	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2346	0.2346	0.0000	0.0000	0.2347

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.7000e-004	1.0300e-003	2.3500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3263	0.3263	1.0000e-005	0.0000	0.3267
Total	1.7000e-004	1.0300e-003	2.3500e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.3263	0.3263	1.0000e-005	0.0000	0.3267

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3.40 21b - Grizzly Portal Rd - Unplug Culverts - 2033**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-005	3.9000e-004	1.1000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.2015	0.2015	0.0000	0.0000	0.2016
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0331	0.0331	0.0000	0.0000	0.0331
Total	3.0000e-005	4.0000e-004	2.2000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2346	0.2346	0.0000	0.0000	0.2347

3.41 20 - Grizzly Powerhouse Intake Rd - Culvert Replacement - 2034**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0177	0.0599	0.1679	4.2000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	39.3344	39.3344	1.4200e-003	0.0000	39.3699
Total	0.0177	0.0599	0.1679	4.2000e-004	1.0000e-005	1.9300e-003	1.9400e-003	0.0000	1.9300e-003	1.9300e-003	0.0000	39.3344	39.3344	1.4200e-003	0.0000	39.3699

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3.41 20 - Grizzly Powerhouse Intake Rd - Culvert Replacement - 2034**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	2.2200e-003	6.7000e-004	1.0000e-005	3.7000e-004	1.0000e-005	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	1.1858	1.1858	2.0000e-005	0.0000	1.1864
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	3.3000e-004	3.8400e-003	1.0000e-005	1.8900e-003	1.0000e-005	1.9000e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.2589	1.2589	3.0000e-005	0.0000	1.2596
Total	7.3000e-004	2.5500e-003	4.5100e-003	2.0000e-005	2.2600e-003	2.0000e-005	2.2700e-003	6.0000e-004	1.0000e-005	6.1000e-004	0.0000	2.4447	2.4447	5.0000e-005	0.0000	2.4460

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0177	0.0599	0.1679	4.2000e-004		1.9300e-003	1.9300e-003		1.9300e-003	1.9300e-003	0.0000	39.3344	39.3344	1.4200e-003	0.0000	39.3699
Total	0.0177	0.0599	0.1679	4.2000e-004	1.0000e-005	1.9300e-003	1.9400e-003	0.0000	1.9300e-003	1.9300e-003	0.0000	39.3344	39.3344	1.4200e-003	0.0000	39.3699

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3.41 20 - Grizzly Powerhouse Intake Rd - Culvert Replacement - 2034**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.0000e-005	2.2200e-003	6.7000e-004	1.0000e-005	3.7000e-004	1.0000e-005	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	1.1858	1.1858	2.0000e-005	0.0000	1.1864
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.5000e-004	3.3000e-004	3.8400e-003	1.0000e-005	1.8900e-003	1.0000e-005	1.9000e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.2589	1.2589	3.0000e-005	0.0000	1.2596
Total	7.3000e-004	2.5500e-003	4.5100e-003	2.0000e-005	2.2600e-003	2.0000e-005	2.2700e-003	6.0000e-004	1.0000e-005	6.1000e-004	0.0000	2.4447	2.4447	5.0000e-005	0.0000	2.4460

3.42 19a - Grizzly Communication Rds - Culvert Replacement - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8900e-003	0.0174	0.0596	1.5000e-004		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	13.9574	13.9574	4.7000e-004	0.0000	13.9690
Total	5.8900e-003	0.0174	0.0596	1.5000e-004	0.0000	4.5000e-004	4.5000e-004	0.0000	4.5000e-004	4.5000e-004	0.0000	13.9574	13.9574	4.7000e-004	0.0000	13.9690

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3.42 19a - Grizzly Communication Rds - Culvert Replacement - 2035**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.1600e-003	3.6000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6294	0.6294	1.0000e-005	0.0000	0.6297
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.2600e-003	0.0000	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4394	0.4394	1.0000e-005	0.0000	0.4396
Total	2.5000e-004	1.2700e-003	1.6200e-003	1.0000e-005	8.6000e-004	0.0000	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	1.0688	1.0688	2.0000e-005	0.0000	1.0693

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8900e-003	0.0174	0.0596	1.5000e-004		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	13.9574	13.9574	4.7000e-004	0.0000	13.9690
Total	5.8900e-003	0.0174	0.0596	1.5000e-004	0.0000	4.5000e-004	4.5000e-004	0.0000	4.5000e-004	4.5000e-004	0.0000	13.9574	13.9574	4.7000e-004	0.0000	13.9690

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3.42 19a - Grizzly Communication Rds - Culvert Replacement - 2035**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.1600e-003	3.6000e-004	1.0000e-005	1.9000e-004	0.0000	1.9000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6294	0.6294	1.0000e-005	0.0000	0.6297
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.1000e-004	1.2600e-003	0.0000	6.7000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.4394	0.4394	1.0000e-005	0.0000	0.4396
Total	2.5000e-004	1.2700e-003	1.6200e-003	1.0000e-005	8.6000e-004	0.0000	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	1.0688	1.0688	2.0000e-005	0.0000	1.0693

3.43 19b - Grizzly Communication Rds - Unplug Culverts - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.0000e-005	4.8000e-004	1.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1632	0.1632	1.0000e-005	0.0000	0.1633
Total	8.0000e-005	4.8000e-004	1.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1632	0.1632	1.0000e-005	0.0000	0.1633

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3.43 19b - Grizzly Communication Rds - Unplug Culverts - 2035**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	9.0000e-005	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0501	0.0501	0.0000	0.0000	0.0501
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0160	0.0160	0.0000	0.0000	0.0160
Total	1.0000e-005	9.0000e-005	8.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0661	0.0661	0.0000	0.0000	0.0661

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.0000e-005	4.8000e-004	1.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1632	0.1632	1.0000e-005	0.0000	0.1633
Total	8.0000e-005	4.8000e-004	1.1700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1632	0.1632	1.0000e-005	0.0000	0.1633

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3.43 19b - Grizzly Communication Rds - Unplug Culverts - 2035**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	9.0000e-005	3.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0501	0.0501	0.0000	0.0000	0.0501
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	0.0000	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0160	0.0160	0.0000	0.0000	0.0160
Total	1.0000e-005	9.0000e-005	8.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0661	0.0661	0.0000	0.0000	0.0661

3.44 23a - Haskins Valley Campground - Replace Pavement - 2040**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1900e-003	0.0000	1.1900e-003	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0327	0.0774	0.2769	8.3000e-004		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	80.6595	80.6595	2.6100e-003	0.0000	80.7248
Total	0.0327	0.0774	0.2769	8.3000e-004	1.1900e-003	2.1100e-003	3.3000e-003	1.3000e-004	2.1100e-003	2.2400e-003	0.0000	80.6595	80.6595	2.6100e-003	0.0000	80.7248

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3.44 23a - Haskins Valley Campground - Replace Pavement - 2040**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6500e-003	0.0440	0.0143	2.6000e-004	7.8700e-003	9.0000e-005	7.9600e-003	2.1000e-003	9.0000e-005	2.1900e-003	0.0000	25.2822	25.2822	5.0000e-004	0.0000	25.2946
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	3.9000e-004	4.9000e-003	2.0000e-005	3.3400e-003	1.0000e-005	3.3500e-003	8.9000e-004	1.0000e-005	9.0000e-004	0.0000	2.0633	2.0633	3.0000e-005	0.0000	2.0639
Total	2.3800e-003	0.0444	0.0192	2.8000e-004	0.0112	1.0000e-004	0.0113	2.9900e-003	1.0000e-004	3.0900e-003	0.0000	27.3454	27.3454	5.3000e-004	0.0000	27.3586

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.1900e-003	0.0000	1.1900e-003	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0327	0.0774	0.2769	8.3000e-004		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	80.6594	80.6594	2.6100e-003	0.0000	80.7247
Total	0.0327	0.0774	0.2769	8.3000e-004	1.1900e-003	2.1100e-003	3.3000e-003	1.3000e-004	2.1100e-003	2.2400e-003	0.0000	80.6594	80.6594	2.6100e-003	0.0000	80.7247

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3.44 23a - Haskins Valley Campground - Replace Pavement - 2040**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6500e-003	0.0440	0.0143	2.6000e-004	7.8700e-003	9.0000e-005	7.9600e-003	2.1000e-003	9.0000e-005	2.1900e-003	0.0000	25.2822	25.2822	5.0000e-004	0.0000	25.2946
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	3.9000e-004	4.9000e-003	2.0000e-005	3.3400e-003	1.0000e-005	3.3500e-003	8.9000e-004	1.0000e-005	9.0000e-004	0.0000	2.0633	2.0633	3.0000e-005	0.0000	2.0639
Total	2.3800e-003	0.0444	0.0192	2.8000e-004	0.0112	1.0000e-004	0.0113	2.9900e-003	1.0000e-004	3.0900e-003	0.0000	27.3454	27.3454	5.3000e-004	0.0000	27.3586

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Recreational	0.451390	0.047356	0.228647	0.160524	0.049085	0.008369	0.015884	0.026778	0.001925	0.001827	0.005819	0.000749	0.001649

5.0 Energy Detail

Historical Energy Use: N

Bucks Creek Hydroelectric Project - Plumas County, Annual

5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

[illegible]

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6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

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7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Bucks Creek Hydroelectric Project - Plumas County, Summer

Bucks Creek Hydroelectric Project

Plumas County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	12.50	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	73
Climate Zone	1			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

On-road Fugitive Dust -

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Bucks Creek Hydroelectric Project - Plumas County, Summer

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Bucks Creek Hydroelectric Project - Plumas County, Summer

[illegible]

Bucks Creek Hydroelectric Project - Plumas County, Summer

[illegible]

Bucks Creek Hydroelectric Project - Plumas County, Summer

[illegible]

Bucks Creek Hydroelectric Project - Plumas County, Summer

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Bucks Creek Hydroelectric Project - Plumas County, Summer

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Bucks Creek Hydroelectric Project - Plumas County, Summer

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Bucks Creek Hydroelectric Project - Plumas County, Summer

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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Bucks Creek Hydroelectric Project - Plumas County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.1335	16.0875	8.7962	0.0425	0.7124	0.3396	1.0520	0.1902	0.3140	0.5042	0.0000	4,317.664 8	4,317.664 8	0.6498	0.0000	4,333.910 8
2022	0.6468	6.0018	7.5725	0.0135	0.2037	0.2793	0.4830	0.0524	0.2571	0.3095	0.0000	1,329.678 7	1,329.678 7	0.3224	0.0000	1,337.739 4
2023	8.2106	70.5964	71.6842	0.1722	1.5898	3.0094	4.5992	0.3721	2.7691	3.1412	0.0000	16,803.911 2	16,803.911 2	4.7823	0.0000	16,923.46 87
2024	0.3303	3.1473	3.4519	0.0115	0.3921	0.0741	0.4662	0.1039	0.0684	0.1723	0.0000	1,176.2113	1,176.2113	0.1235	0.0000	1,179.297 5
2025	8.1635	66.9957	82.3472	0.2167	2.4695	2.4972	4.9667	0.6141	2.3077	2.9219	0.0000	21,288.35 56	21,288.35 56	5.2238	0.0000	21,418.95 06
2026	5.8125	47.4110	56.7945	0.1455	1.2289	1.8800	3.1089	0.3209	1.7301	2.0510	0.0000	14,259.29 83	14,259.29 83	3.8812	0.0000	14,356.32 89
2027	3.1850	23.2363	35.7062	0.0849	0.5863	0.9281	1.5145	0.1557	0.8540	1.0097	0.0000	8,275.640 6	8,275.640 6	2.3926	0.0000	8,335.456 5
2028	0.8413	5.5845	9.0604	0.0231	0.1231	0.2176	0.3407	0.0326	0.2002	0.2328	0.0000	2,238.494 2	2,238.494 2	0.6781	0.0000	2,255.447 2
2029	6.0183	44.5079	62.4286	0.1744	1.5993	1.6296	3.2289	0.3957	1.4997	1.8954	0.0000	17,075.97 55	17,075.97 55	4.6693	0.0000	17,192.70 86
2030	0.2291	1.9995	2.7569	9.2000e-003	0.2168	0.0220	0.2387	0.0574	0.0218	0.0792	0.0000	926.9711	926.9711	0.0276	0.0000	927.6606
2031	1.4109	5.5000	13.8125	0.0351	0.2595	0.1461	0.4056	0.0691	0.1459	0.2151	0.0000	3,621.833 2	3,621.833 2	0.1268	0.0000	3,625.004 4
2033	1.3958	5.4426	13.7364	0.0349	0.2358	0.1457	0.3814	0.0632	0.1456	0.2088	0.0000	3,602.380 5	3,602.380 5	0.1256	0.0000	3,605.519 7
2034	1.1877	4.0217	11.1405	0.0286	0.1531	0.1255	0.2785	0.0406	0.1254	0.1659	0.0000	2,977.485 6	2,977.485 6	0.1047	0.0000	2,980.102 1
2035	1.3025	4.5432	13.6390	0.0342	0.2604	0.0966	0.3570	0.0688	0.0965	0.1653	0.0000	3,525.938 7	3,525.938 7	0.1151	0.0000	3,528.816 5
2040	3.3402	11.5000	28.2224	0.1062	1.2269	0.2110	1.4379	0.3084	0.2105	0.5189	0.0000	11,362.01 99	11,362.01 99	0.3283	0.0000	11,370.226 3
Maximum	8.2106	70.5964	82.3472	0.2167	2.4695	3.0094	4.9667	0.6141	2.7691	3.1412	0.0000	21,288.35 56	21,288.35 56	5.2238	0.0000	21,418.95 06

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

Bucks Creek Hydroelectric Project - Plumas County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.1335	16.0875	8.7962	0.0425	0.7124	0.3396	1.0520	0.1902	0.3140	0.5042	0.0000	4,317.664 8	4,317.664 8	0.6498	0.0000	4,333.910 8
2022	0.6468	6.0018	7.5725	0.0135	0.2037	0.2793	0.4830	0.0524	0.2571	0.3095	0.0000	1,329.678 7	1,329.678 7	0.3224	0.0000	1,337.739 4
2023	8.2106	70.5964	71.6842	0.1722	1.5898	3.0094	4.5992	0.3721	2.7691	3.1412	0.0000	16,803.91 12	16,803.91 2	4.7823	0.0000	16,923.46 87
2024	0.3303	3.1473	3.4519	0.0115	0.3921	0.0741	0.4662	0.1039	0.0684	0.1723	0.0000	1,176.2113	1,176.2113	0.1235	0.0000	1,179.297 5
2025	8.1635	66.9957	82.3472	0.2167	2.4695	2.4972	4.9667	0.6141	2.3077	2.9219	0.0000	21,288.35 56	21,288.35 56	5.2238	0.0000	21,418.95 06
2026	5.8125	47.4110	56.7945	0.1455	1.2289	1.8800	3.1089	0.3209	1.7301	2.0510	0.0000	14,259.29 83	14,259.29 83	3.8812	0.0000	14,356.32 89
2027	3.1850	23.2363	35.7062	0.0849	0.5863	0.9281	1.5145	0.1557	0.8540	1.0097	0.0000	8,275.640 6	8,275.640 6	2.3926	0.0000	8,335.456 5
2028	0.8413	5.5845	9.0604	0.0231	0.1231	0.2176	0.3407	0.0326	0.2002	0.2328	0.0000	2,238.494 2	2,238.494 2	0.6781	0.0000	2,255.447 2
2029	6.0183	44.5079	62.4286	0.1744	1.5993	1.6296	3.2289	0.3957	1.4997	1.8954	0.0000	17,075.97 54	17,075.97 54	4.6693	0.0000	17,192.70 86
2030	0.2291	1.9995	2.7569	9.2000e-003	0.2168	0.0220	0.2387	0.0574	0.0218	0.0792	0.0000	926.9711	926.9711	0.0276	0.0000	927.6606
2031	1.4109	5.5000	13.8125	0.0351	0.2595	0.1461	0.4056	0.0691	0.1459	0.2151	0.0000	3,621.833 2	3,621.833 2	0.1268	0.0000	3,625.004 4
2033	1.3958	5.4426	13.7364	0.0349	0.2358	0.1457	0.3814	0.0632	0.1456	0.2088	0.0000	3,602.380 5	3,602.380 5	0.1256	0.0000	3,605.519 7
2034	1.1877	4.0217	11.1405	0.0286	0.1531	0.1255	0.2785	0.0406	0.1254	0.1659	0.0000	2,977.485 6	2,977.485 6	0.1047	0.0000	2,980.102 1
2035	1.3025	4.5432	13.6390	0.0342	0.2604	0.0966	0.3570	0.0688	0.0965	0.1653	0.0000	3,525.938 7	3,525.938 7	0.1151	0.0000	3,528.816 5
2040	3.3402	11.5000	28.2224	0.1062	1.2269	0.2110	1.4379	0.3084	0.2105	0.5189	0.0000	11,362.019 8	11,362.019 8	0.3283	0.0000	11,370.22 63
Maximum	8.2106	70.5964	82.3472	0.2167	2.4695	3.0094	4.9667	0.6141	2.7691	3.1412	0.0000	21,288.35 56	21,288.35 56	5.2238	0.0000	21,418.95 06

Bucks Creek Hydroelectric Project - Plumas County, Summer

[illegible]

Bucks Creek Hydroelectric Project - Plumas County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Bucks Creek Hydroelectric Project - Plumas County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	17a - Bucks Penstock Rd - Slope Stabilization	Building Construction	6/1/2021	6/23/2021	5	22	
2	17b - Bucks Penstock Rd - Unplug Culverts	Building Construction	6/1/2022	6/6/2022	5	5	
3	27 - Sundew Campground - Paving	Building Construction	6/1/2022	9/7/2022	5	98	
4	17d - Bucks Penstock Rd - Culvert Replacement	Building Construction	6/1/2023	9/3/2023	5	94	
5	23c - Haskins Valley Campground - Unplug Culverts	Building Construction	6/1/2023	6/3/2023	5	2	
6	24a - Hutchins Group Campground - Reconstruct Entrance	Building Construction	6/1/2023	6/3/2023	5	2	
7	24b - Hutchins Group Campground - Dirt Resurfacing	Building Construction	6/1/2023	6/29/2023	5	28	
8	24c - Hutchins Group Campground - Culvert Outfall	Building Construction	6/1/2023	6/2/2023	5	1	
9	25c - Lower Bucks Campground - Reconstruct Intersection	Building Construction	6/1/2023	6/6/2023	5	5	
10	26a - Mill Creek Campground - Resurfacing	Building Construction	6/1/2023	9/17/2023	5	108	
11	26b - Mill Creek Campground - Culvert Replacement	Building Construction	6/1/2023	8/3/2023	5	63	
12	16g - Three Lakes Rd - Culvert Outfall	Building Construction	6/1/2024	6/3/2024	5	2	
13	28e - Sandy Point Day Use - Clear Vegetation	Building Construction	6/1/2024	6/6/2024	5	5	
14	16a - Three Lakes Rd - Slope Stabilization	Building Construction	6/1/2025	9/21/2025	5	112	
15	16b - Three Lakes Rd - Gravel Resurfacing	Building Construction	6/1/2025	6/2/2025	5	1	

Bucks Creek Hydroelectric Project - Plumas County, Summer

16	16c - Three Lakes Rd - Replace Pavement	Building Construction	6/1/2025	6/2/2025	5	1
17	16d - Three Lakes Rd - Unplug Culverts	Building Construction	6/1/2025	6/22/2025	5	21
18	16h - Three Lakes Rd - Water Crossings	Building Construction	6/1/2025	6/22/2025	5	21
19	26d - Mill Creek Campground - Repave	Building Construction	6/1/2025	10/8/2025	5	129
20	28a - Sandy Point Day Use - Replace Roadway	Building Construction	6/1/2025	7/27/2025	5	56
21	28b - Sandy Point Day Use - Reconstruct	Building Construction	6/1/2025	7/27/2025	5	56
22	28c - Sandy Point Day Use - Culvert Replacement	Building Construction	6/1/2025	6/15/2025	5	14
23	28d - Sandy Point Day Use - Unplug Culverts	Building Construction	6/1/2025	6/6/2025	5	5
24	16f - Three Lakes Rd - Culvert Replacement	Building Construction	6/1/2026	9/21/2026	5	112
25	25a - Lower Bucks Campground - Reconstruct Entrance	Building Construction	6/1/2026	7/6/2026	5	35
26	25b - Lower Bucks Campground - Construct Roads	Building Construction	6/1/2026	7/6/2026	5	35
27	16e - Three Lakes Rd - Ditches	Building Construction	6/1/2027	8/24/2027	5	84
28	17c - Bucks Penstock Rd - Ditches	Building Construction	6/1/2027	6/11/2027	5	10
29	26c - Mill Creek Campground - Unplug Culverts	Building Construction	6/1/2027	6/3/2027	5	2
30	23b - Haskins Valley Campground - Ditches	Building Construction	6/1/2028	6/11/2028	5	10
31	18a - Grizzly Forebay Rd - Culvert Replacement	Building Construction	6/1/2029	6/15/2029	5	14
32	18b - Grizzly Forebay Rd - Unplug Culverts	Building Construction	6/1/2029	6/15/2029	5	14
33	18c - Grizzly Forebay Rd - Replace Pavement	Building Construction	6/1/2029	6/5/2029	5	4
34	24d - Hutchins Group Campground - Replace Pavement	Building Construction	6/1/2029	6/5/2029	5	4
35	22b - Grizzly Powerhouse Rd - Unplug Culverts	Building Construction	6/1/2030	6/4/2030	5	3
36	22a - Grizzly Powerhouse Rd - Culvert Replacement	Building Construction	6/1/2031	8/20/2031	5	80
37	22c - Grizzly Powerhouse Rd - Culvert Outfall	Building Construction	6/1/2031	6/2/2031	5	1

Bucks Creek Hydroelectric Project - Plumas County, Summer

38	21a - Grizzly Portal Rd - Culvert Replacement	Building Construction	6/1/2033	7/2/2033	5	31
39	21b - Grizzly Portal Rd - Unplug Culverts	Building Construction	6/1/2033	6/2/2033	5	1
40	20 - Grizzly Powerhouse Intake Rd - Culvert Replacement	Building Construction	6/1/2034	7/13/2034	5	42
41	19a - Grizzly Communication Rds - Culvert Replacement	Building Construction	6/1/2035	6/15/2035	5	14
42	19b - Grizzly Communication Rds - Unplug Culverts	Building Construction	6/1/2035	6/3/2035	5	2
43	23a - Haskins Valley Campground - Replace Pavement	Building Construction	6/1/2040	6/29/2040	5	28

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
16a - Three Lakes Rd - Slope Stabilization	Excavators	1	8.00	158	0.38
16a - Three Lakes Rd - Slope Stabilization	Off-Highway Trucks	1	8.00	402	0.38
16b - Three Lakes Rd - Gravel Resurfacing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
16b - Three Lakes Rd - Gravel Resurfacing	Plate Compactors	1	8.00	8	0.43
16c - Three Lakes Rd - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
16c - Three Lakes Rd - Replace Pavement	Plate Compactors	1	8.00	8	0.43
16c - Three Lakes Rd - Replace Pavement	Paving Equipment	1	8.00	132	0.36
16d - Three Lakes Rd - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
16e - Three Lakes Rd - Ditches	Excavators	2	8.00	158	0.38

Bucks Creek Hydroelectric Project - Plumas County, Summer

16e - Three Lakes Rd - Ditches	Tractors/Loaders/Backhoes	2	8.00	97	0.37
16e - Three Lakes Rd - Ditches	Rollers	2	8.00	80	0.38
16e - Three Lakes Rd - Ditches	Off-Highway Trucks	2	8.00	402	0.38
16f - Three Lakes Rd - Culvert Replacement	Excavators	2	8.00	158	0.38
16f - Three Lakes Rd - Culvert Replacement	Tractors/Loaders/Backhoes	2	8.00	97	0.37
16f - Three Lakes Rd - Culvert Replacement	Rollers	2	8.00	80	0.38
16f - Three Lakes Rd - Culvert Replacement	Off-Highway Trucks	2	8.00	402	0.38
16g - Three Lakes Rd - Culvert Outfall	Tractors/Loaders/Backhoes	1	8.00	97	0.37
16h - Three Lakes Rd - Water Crossings	Excavators	1	8.00	158	0.38
16h - Three Lakes Rd - Water Crossings	Tractors/Loaders/Backhoes	1	8.00	97	0.37
16h - Three Lakes Rd - Water Crossings	Off-Highway Trucks	1	8.00	402	0.38
17a - Bucks Penstock Rd - Slope Stabilization	Excavators	1	8.00	158	0.38
17a - Bucks Penstock Rd - Slope Stabilization	Off-Highway Trucks	1	8.00	402	0.38
17b - Bucks Penstock Rd - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
17c - Bucks Penstock Rd - Ditches	Excavators	1	8.00	158	0.38
17c - Bucks Penstock Rd - Ditches	Tractors/Loaders/Backhoes	1	8.00	97	0.37
17c - Bucks Penstock Rd - Ditches	Rollers	1	8.00	80	0.38
17c - Bucks Penstock Rd - Ditches	Off-Highway Trucks	1	8.00	402	0.38
17d - Bucks Penstock Rd - Culvert Replacement	Excavators	1	8.00	158	0.38
17d - Bucks Penstock Rd - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
17d - Bucks Penstock Rd - Culvert Replacement	Rollers	1	8.00	80	0.38
17d - Bucks Penstock Rd - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
18a - Grizzly Forebay Rd - Culvert Replacement	Excavators	1	8.00	158	0.38

Bucks Creek Hydroelectric Project - Plumas County, Summer

18a - Grizzly Forebay Rd - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
18a - Grizzly Forebay Rd - Culvert Replacement	Rollers	1	8.00	80	0.38
18a - Grizzly Forebay Rd - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
18b - Grizzly Forebay Rd - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
18c - Grizzly Forebay Rd - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
18c - Grizzly Forebay Rd - Replace Pavement	Excavators	1	8.00	158	0.38
18c - Grizzly Forebay Rd - Replace Pavement	Off-Highway Trucks	2	8.00	402	0.38
18c - Grizzly Forebay Rd - Replace Pavement	Paving Equipment	1	8.00	132	0.36
18c - Grizzly Forebay Rd - Replace Pavement	Rollers	1	8.00	80	0.38
18c - Grizzly Forebay Rd - Replace Pavement	Off-Highway Trucks	1	8.00	402	0.38
18c - Grizzly Forebay Rd - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
18c - Grizzly Forebay Rd - Replace Pavement	Skid Steer Loaders	1	8.00	65	0.37
19a - Grizzly Communication Rds - Culvert Replacement	Excavators	1	8.00	158	0.38
19a - Grizzly Communication Rds - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
19a - Grizzly Communication Rds - Culvert Replacement	Rollers	1	8.00	80	0.38
19a - Grizzly Communication Rds - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
19b - Grizzly Communication Rds - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
20 - Grizzly Powerhouse Intake Rd - Culvert Replacement	Excavators	1	8.00	158	0.38
20 - Grizzly Powerhouse Intake Rd - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
20 - Grizzly Powerhouse Intake Rd - Culvert Replacement	Rollers	1	8.00	80	0.38
20 - Grizzly Powerhouse Intake Rd - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
21a - Grizzly Portal Rd - Culvert Replacement	Excavators	1	8.00	158	0.38

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21a - Grizzly Portal Rd - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
21a - Grizzly Portal Rd - Culvert Replacement	Rollers	1	8.00	80	0.38
21a - Grizzly Portal Rd - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
21b - Grizzly Portal Rd - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
22a - Grizzly Powerhouse Rd - Culvert Replacement	Excavators	1	8.00	158	0.38
22a - Grizzly Powerhouse Rd - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
22a - Grizzly Powerhouse Rd - Culvert Replacement	Rollers	1	8.00	80	0.38
22a - Grizzly Powerhouse Rd - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
22b - Grizzly Powerhouse Rd - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
22c - Grizzly Powerhouse Rd - Culvert Outfall	Tractors/Loaders/Backhoes	1	8.00	97	0.37
23a - Haskins Valley Campground - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
23a - Haskins Valley Campground - Replace Pavement	Excavators	1	8.00	158	0.38
23a - Haskins Valley Campground - Replace Pavement	Off-Highway Trucks	2	8.00	402	0.38
23a - Haskins Valley Campground - Replace Pavement	Paving Equipment	1	8.00	132	0.36
23a - Haskins Valley Campground - Replace Pavement	Rollers	1	8.00	80	0.38
23a - Haskins Valley Campground - Replace Pavement	Off-Highway Trucks	2	8.00	402	0.38
23a - Haskins Valley Campground - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
23a - Haskins Valley Campground - Replace Pavement	Skid Steer Loaders	1	8.00	65	0.37
23b - Haskins Valley Campground - Ditches	Excavators	1	8.00	158	0.38
23b - Haskins Valley Campground - Ditches	Tractors/Loaders/Backhoes	1	8.00	97	0.37
23b - Haskins Valley Campground - Ditches	Off-Highway Trucks	1	8.00	402	0.38
23c - Haskins Valley Campground - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Bucks Creek Hydroelectric Project - Plumas County, Summer

24a - Hutchins Group Campground - Reconstruct Entrance	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24a - Hutchins Group Campground - Reconstruct Entrance	Rubber Tired Dozers	1	8.00	247	0.40
24a - Hutchins Group Campground - Reconstruct Entrance	Skid Steer Loaders	1	8.00	65	0.37
24a - Hutchins Group Campground - Reconstruct Entrance	Rollers	1	8.00	80	0.38
24a - Hutchins Group Campground - Reconstruct Entrance	Off-Highway Trucks	1	8.00	402	0.38
24b - Hutchins Group Campground - Dirt Resurfacing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24b - Hutchins Group Campground - Dirt Resurfacing	Rubber Tired Dozers	1	8.00	247	0.40
24b - Hutchins Group Campground - Dirt Resurfacing	Skid Steer Loaders	1	8.00	65	0.37
24b - Hutchins Group Campground - Dirt Resurfacing	Rollers	1	8.00	80	0.38
24b - Hutchins Group Campground - Dirt Resurfacing	Off-Highway Trucks	1	8.00	402	0.38
24c - Hutchins Group Campground - Culvert Outfall	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24d - Hutchins Group Campground - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24d - Hutchins Group Campground - Replace Pavement	Excavators	1	8.00	158	0.38
24d - Hutchins Group Campground - Replace Pavement	Off-Highway Trucks	2	8.00	402	0.38
24d - Hutchins Group Campground - Replace Pavement	Paving Equipment	1	8.00	132	0.36
24d - Hutchins Group Campground - Replace Pavement	Rollers	1	8.00	80	0.38
24d - Hutchins Group Campground - Replace Pavement	Off-Highway Trucks	1	8.00	402	0.38
24d - Hutchins Group Campground - Replace Pavement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
24d - Hutchins Group Campground - Replace Pavement	Skid Steer Loaders	1	8.00	65	0.37
25a - Lower Bucks Campground - Reconstruct Entrance	Excavators	1	8.00	158	0.38
25a - Lower Bucks Campground - Reconstruct Entrance	Tractors/Loaders/Backhoes	1	8.00	97	0.37
25a - Lower Bucks Campground - Reconstruct Entrance	Rubber Tired Dozers	1	8.00	247	0.40

Bucks Creek Hydroelectric Project - Plumas County, Summer

25a - Lower Bucks Campground - Reconstruct Entrance	Rollers	1	8.00	80	0.38
25a - Lower Bucks Campground - Reconstruct Entrance	Paving Equipment	1	8.00	132	0.36
25a - Lower Bucks Campground - Reconstruct Entrance	Off-Highway Trucks	1	8.00	402	0.38
25b - Lower Bucks Campground - Construct Roads	Excavators	1	8.00	158	0.38
25b - Lower Bucks Campground - Construct Roads	Tractors/Loaders/Backhoes	1	8.00	97	0.37
25b - Lower Bucks Campground - Construct Roads	Rubber Tired Dozers	1	8.00	247	0.40
25b - Lower Bucks Campground - Construct Roads	Rollers	1	8.00	80	0.38
25b - Lower Bucks Campground - Construct Roads	Paving Equipment	1	8.00	132	0.36
25b - Lower Bucks Campground - Construct Roads	Off-Highway Trucks	1	8.00	402	0.38
25c - Lower Bucks Campground - Reconstruct Intersection	Tractors/Loaders/Backhoes	1	8.00	97	0.37
25c - Lower Bucks Campground - Reconstruct Intersection	Rubber Tired Dozers	1	8.00	247	0.40
25c - Lower Bucks Campground - Reconstruct Intersection	Skid Steer Loaders	1	8.00	65	0.37
25c - Lower Bucks Campground - Reconstruct Intersection	Rollers	1	8.00	80	0.38
25c - Lower Bucks Campground - Reconstruct Intersection	Off-Highway Trucks	1	8.00	402	0.38
26a - Mill Creek Campground - Resurfacing	Rollers	1	8.00	80	0.38
26a - Mill Creek Campground - Resurfacing	Paving Equipment	1	8.00	132	0.36
26b - Mill Creek Campground - Culvert Replacement	Excavators	1	8.00	158	0.38
26b - Mill Creek Campground - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
26b - Mill Creek Campground - Culvert Replacement	Rollers	1	8.00	80	0.38
26b - Mill Creek Campground - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
26c - Mill Creek Campground - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
26d - Mill Creek Campground - Repave	Rollers	1	8.00	80	0.38

Bucks Creek Hydroelectric Project - Plumas County, Summer

26d - Mill Creek Campground - Repave	Paving Equipment	1	8.00	132	0.36
27 - Sundew Campground - Paving	Rollers	1	8.00	80	0.38
27 - Sundew Campground - Paving	Paving Equipment	1	8.00	132	0.36
28a - Sandy Point Day Use - Replace Roadway	Excavators	1	8.00	158	0.38
28a - Sandy Point Day Use - Replace Roadway	Tractors/Loaders/Backhoes	1	8.00	97	0.37
28a - Sandy Point Day Use - Replace Roadway	Rubber Tired Dozers	1	8.00	247	0.40
28a - Sandy Point Day Use - Replace Roadway	Rollers	1	8.00	80	0.38
28a - Sandy Point Day Use - Replace Roadway	Paving Equipment	1	8.00	132	0.36
28a - Sandy Point Day Use - Replace Roadway	Off-Highway Trucks	1	8.00	402	0.38
28b - Sandy Point Day Use - Reconstruct	Excavators	1	8.00	70	0.38
28b - Sandy Point Day Use - Reconstruct	Off-Highway Trucks	1	4.00	402	0.38
28b - Sandy Point Day Use - Reconstruct	Off-Highway Trucks	1	8.00	402	0.38
28b - Sandy Point Day Use - Reconstruct	Rubber Tired Dozers	1	8.00	247	0.40
28b - Sandy Point Day Use - Reconstruct	Rollers	1	8.00	80	0.38
28b - Sandy Point Day Use - Reconstruct	Paving Equipment	1	8.00	132	0.36
28b - Sandy Point Day Use - Reconstruct	Generator Sets	1	8.00	84	0.74
28b - Sandy Point Day Use - Reconstruct	Other General Industrial Equipment	1	2.00	4	0.34
28c - Sandy Point Day Use - Culvert Replacement	Excavators	1	8.00	158	0.38
28c - Sandy Point Day Use - Culvert Replacement	Tractors/Loaders/Backhoes	1	8.00	97	0.37
28c - Sandy Point Day Use - Culvert Replacement	Rollers	1	8.00	80	0.38
28c - Sandy Point Day Use - Culvert Replacement	Off-Highway Trucks	1	8.00	402	0.38
28d - Sandy Point Day Use - Unplug Culverts	Tractors/Loaders/Backhoes	1	8.00	97	0.37
28e - Sandy Point Day Use - Clear Vegetation	Other General Industrial Equipment	2	8.00	4	0.34

Bucks Creek Hydroelectric Project - Plumas County, Summer

28e - Sandy Point Day Use - Clear Vegetation	Other General Industrial Equipment	2	8.00	2	0.34

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
16a - Three Lakes Rd - Slope Stabilization	2	6.00	0.00	1,778.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16b - Three Lakes Rd - Gravel Resurfacing	2	6.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16c - Three Lakes Rd - Replace Pavement	3	8.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16d - Three Lakes Rd - Unplug Culverts	1	4.00	0.00	14.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16e - Three Lakes Rd - Ditches	8	20.00	0.00	274.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16f - Three Lakes Rd - Culvert Replacement	8	20.00	0.00	176.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16g - Three Lakes Rd - Culvert Outfall	1	4.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
16h - Three Lakes Rd - Water Crossings	3	8.00	0.00	6.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
17a - Bucks Penstock Rd - Slope Stabilization	2	6.00	0.00	444.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
17b - Bucks Penstock Rd - Unplug Culverts	1	4.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
17c - Bucks Penstock Rd - Ditches	4	10.00	0.00	8.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
17d - Bucks Penstock Rd - Culvert Replacement	4	10.00	0.00	76.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
18a - Grizzly Forebay Rd - Culvert Replacement	4	10.00	0.00	16.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
18b - Grizzly Forebay Rd - Unplug Culverts	1	4.00	0.00	10.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
18c - Grizzly Forebay Rd - Replace Pavement	9	24.00	0.00	30.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
19a - Grizzly Communication Rd	4	10.00	0.00	16.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
19b - Grizzly Communication Rd	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
20 - Grizzly Powerhouse Intake Rd	4	10.00	0.00	32.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
21a - Grizzly Portal Rd - Culvert Replacement	4	10.00	0.00	24.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
21b - Grizzly Portal Rd - Unplug Culverts	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
22a - Grizzly Powerhouse Rd - Culvert Replacement	4	10.00	0.00	70.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
22b - Grizzly Powerhouse Rd - Unplug Culverts	1	4.00	0.00	14.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT

Bucks Creek Hydroelectric Project - Plumas County, Summer

22c - Grizzly Powerhouse Rd - Culv	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
23a - Haskins Valley Campground - Benlar	10	26.00	0.00	680.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
23b - Haskins Valley Campground - Ditches	3	8.00	0.00	6.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
23c - Haskins Valley Campground - Unlin	1	4.00	0.00	10.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
24a - Hutchins Group Campground - Recon	5	14.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
24b - Hutchins Group Campground - Dirt Pa	5	14.00	0.00	0.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
24c - Hutchins Group Campground - Culvert	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
24d - Hutchins Group Campground - Benlar	9	24.00	0.00	40.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
25a - Lower Bucks Campground - Recon	6	16.00	0.00	288.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
25b - Lower Bucks Campground - Constr	6	16.00	0.00	224.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
25c - Lower Bucks Campground - Recon	5	14.00	0.00	4.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
26a - Mill Creek Campground - Resurf	2	6.00	0.00	156.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
26b - Mill Creek Campground - Culvert	4	10.00	0.00	62.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
26c - Mill Creek Campground - Unlin	1	4.00	0.00	2.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
26d - Mill Creek Campground - Renov	2	6.00	0.00	100.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
27 - Sundew Campground - Paving	2	6.00	0.00	120.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
28a - Sandy Point Day Use - Replace Roadw	6	16.00	0.00	228.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
28b - Sandy Point Day Use - Reconstruct	8	20.00	0.00	190.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
28c - Sandy Point Day Use - Culvert Replace	4	10.00	0.00	16.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
28d - Sandy Point Day Use - Unlin Culverts	1	4.00	0.00	8.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT
28e - Sandy Point Day Use - Clear Vegetation	4	10.00	0.00	20.00	16.80	6.60	30.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.2 17a - Bucks Penstock Rd - Slope Stabilization - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8351	7.4168	6.8762	0.0184		0.2975	0.2975		0.2737	0.2737		1,778.7150	1,778.7150	0.5753		1,793.0968
Total	0.8351	7.4168	6.8762	0.0184		0.2975	0.2975		0.2737	0.2737		1,778.7150	1,778.7150	0.5753		1,793.0968

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2235	8.6245	1.3765	0.0233	0.6357	0.0413	0.6770	0.1699	0.0395	0.2094		2,454.3620	2,454.3620	0.0687		2,456.0803
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0749	0.0463	0.5436	8.5000e-004	0.0766	8.2000e-004	0.0775	0.0203	7.6000e-004	0.0211		84.5878	84.5878	5.8400e-003		84.7338
Total	0.2984	8.6707	1.9201	0.0241	0.7124	0.0421	0.7545	0.1902	0.0403	0.2305		2,538.9498	2,538.9498	0.0746		2,540.8141

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.2 17a - Bucks Penstock Rd - Slope Stabilization - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8351	7.4168	6.8762	0.0184		0.2975	0.2975		0.2737	0.2737	0.0000	1,778.7150	1,778.7150	0.5753		1,793.0968
Total	0.8351	7.4168	6.8762	0.0184		0.2975	0.2975		0.2737	0.2737	0.0000	1,778.7150	1,778.7150	0.5753		1,793.0968

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2235	8.6245	1.3765	0.0233	0.6357	0.0413	0.6770	0.1699	0.0395	0.2094		2,454.3620	2,454.3620	0.0687		2,456.0803
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0749	0.0463	0.5436	8.5000e-004	0.0766	8.2000e-004	0.0775	0.0203	7.6000e-004	0.0211		84.5878	84.5878	5.8400e-003		84.7338
Total	0.2984	8.6707	1.9201	0.0241	0.7124	0.0421	0.7545	0.1902	0.0403	0.2305		2,538.9498	2,538.9498	0.0746		2,540.8141

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.3 17b - Bucks Penstock Rd - Unplug Culverts - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829		301.2390	301.2390	0.0974		303.6746
Total	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829		301.2390	301.2390	0.0974		303.6746

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.3400e-003	0.3137	0.0508	9.1000e-004	0.0245	1.4400e-003	0.0259	6.5600e-003	1.3800e-003	7.9300e-003		96.2410	96.2410	2.6600e-003		96.3074
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0466	0.0275	0.3198	5.5000e-004	0.0511	5.1000e-004	0.0516	0.0136	4.7000e-004	0.0140		54.5275	54.5275	3.4100e-003		54.6128
Total	0.0550	0.3412	0.3707	1.4600e-003	0.0756	1.9500e-003	0.0775	0.0201	1.8500e-003	0.0220		150.7686	150.7686	6.0700e-003		150.9201

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.3 17b - Bucks Penstock Rd - Unplug Culverts - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829	0.0000	301.2390	301.2390	0.0974		303.6746
Total	0.1647	1.6756	2.2379	3.1100e-003		0.0901	0.0901		0.0829	0.0829	0.0000	301.2390	301.2390	0.0974		303.6746

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.3400e-003	0.3137	0.0508	9.1000e-004	0.0245	1.4400e-003	0.0259	6.5600e-003	1.3800e-003	7.9300e-003		96.2410	96.2410	2.6600e-003		96.3074
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0466	0.0275	0.3198	5.5000e-004	0.0511	5.1000e-004	0.0516	0.0136	4.7000e-004	0.0140		54.5275	54.5275	3.4100e-003		54.6128
Total	0.0550	0.3412	0.3707	1.4600e-003	0.0756	1.9500e-003	0.0775	0.0201	1.8500e-003	0.0220		150.7686	150.7686	6.0700e-003		150.9201

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.4 27 - Sundew Campground - Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0108	0.0000	0.0108	1.1700e-003	0.0000	1.1700e-003			0.0000			0.0000
Off-Road	0.3445	3.4636	4.4063	6.7000e-003		0.1842	0.1842		0.1695	0.1695		648.5722	648.5722	0.2098		653.8163
Total	0.3445	3.4636	4.4063	6.7000e-003	0.0108	0.1842	0.1951	1.1700e-003	0.1695	0.1707		648.5722	648.5722	0.2098		653.8163

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0128	0.4802	0.0778	1.4000e-003	0.0406	2.2000e-003	0.0429	0.0108	2.1100e-003	0.0129		147.3077	147.3077	4.0600e-003		147.4093
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0699	0.0412	0.4798	8.2000e-004	0.0766	7.7000e-004	0.0774	0.0203	7.1000e-004	0.0210		81.7913	81.7913	5.1100e-003		81.9191
Total	0.0827	0.5214	0.5576	2.2200e-003	0.1173	2.9700e-003	0.1203	0.0311	2.8200e-003	0.0340		229.0990	229.0990	9.1700e-003		229.3284

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.4 27 - Sundew Campground - Paving - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0108	0.0000	0.0108	1.1700e-003	0.0000	1.1700e-003			0.0000			0.0000
Off-Road	0.3445	3.4636	4.4063	6.7000e-003		0.1842	0.1842		0.1695	0.1695	0.0000	648.5722	648.5722	0.2098		653.8163
Total	0.3445	3.4636	4.4063	6.7000e-003	0.0108	0.1842	0.1951	1.1700e-003	0.1695	0.1707	0.0000	648.5722	648.5722	0.2098		653.8163

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0128	0.4802	0.0778	1.4000e-003	0.0406	2.2000e-003	0.0429	0.0108	2.1100e-003	0.0129		147.3077	147.3077	4.0600e-003		147.4093
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0699	0.0412	0.4798	8.2000e-004	0.0766	7.7000e-004	0.0774	0.0203	7.1000e-004	0.0210		81.7913	81.7913	5.1100e-003		81.9191
Total	0.0827	0.5214	0.5576	2.2200e-003	0.1173	2.9700e-003	0.1203	0.0311	2.8200e-003	0.0340		229.0990	229.0990	9.1700e-003		229.3284

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.5 17d - Bucks Penstock Rd - Culvert Replacement - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4000e-004	0.0000	5.4000e-004	8.0000e-005	0.0000	8.0000e-005			0.0000			0.0000
Off-Road	0.9976	8.2623	10.6298	0.0241		0.3692	0.3692		0.3397	0.3397		2,335.6783	2,335.6783	0.7554		2,354.5634
Total	0.9976	8.2623	10.6298	0.0241	5.4000e-004	0.3692	0.3698	8.0000e-005	0.3397	0.3398		2,335.6783	2,335.6783	0.7554		2,354.5634

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.4100e-003	0.2350	0.0468	9.0000e-004	0.0272	9.4000e-004	0.0281	7.2300e-003	9.0000e-004	8.1200e-003		94.6223	94.6223	2.3700e-003		94.6816
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1085	0.0609	0.7005	1.3200e-003	0.1277	1.2100e-003	0.1289	0.0339	1.1100e-003	0.0350		131.5720	131.5720	7.4100e-003		131.7573
Total	0.1149	0.2959	0.7472	2.2200e-003	0.1549	2.1500e-003	0.1571	0.0411	2.0100e-003	0.0431		226.1943	226.1943	9.7800e-003		226.4389

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.5 17d - Bucks Penstock Rd - Culvert Replacement - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.4000e-004	0.0000	5.4000e-004	8.0000e-005	0.0000	8.0000e-005			0.0000			0.0000
Off-Road	0.9976	8.2623	10.6298	0.0241		0.3692	0.3692		0.3397	0.3397	0.0000	2,335.6783	2,335.6783	0.7554		2,354.5634
Total	0.9976	8.2623	10.6298	0.0241	5.4000e-004	0.3692	0.3698	8.0000e-005	0.3397	0.3398	0.0000	2,335.6783	2,335.6783	0.7554		2,354.5634

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.4100e-003	0.2350	0.0468	9.0000e-004	0.0272	9.4000e-004	0.0281	7.2300e-003	9.0000e-004	8.1200e-003		94.6223	94.6223	2.3700e-003		94.6816
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1085	0.0609	0.7005	1.3200e-003	0.1277	1.2100e-003	0.1289	0.0339	1.1100e-003	0.0350		131.5720	131.5720	7.4100e-003		131.7573
Total	0.1149	0.2959	0.7472	2.2200e-003	0.1549	2.1500e-003	0.1571	0.0411	2.0100e-003	0.0431		226.1943	226.1943	9.7800e-003		226.4389

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.6 23c - Haskins Valley Campground - Unplug Culverts - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1514	1.5357	2.2313	3.1200e-003		0.0758	0.0758		0.0698	0.0698		301.5765	301.5765	0.0975		304.0149
Total	0.1514	1.5357	2.2313	3.1200e-003		0.0758	0.0758		0.0698	0.0698		301.5765	301.5765	0.0975		304.0149

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0397	1.4532	0.2891	5.5400e-003	0.1282	5.8100e-003	0.1340	0.0349	5.5600e-003	0.0404		585.1642	585.1642	0.0147		585.5312
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0434	0.0244	0.2802	5.3000e-004	0.0511	4.8000e-004	0.0516	0.0136	4.4000e-004	0.0140		52.6288	52.6288	2.9600e-003		52.7029
Total	0.0831	1.4776	0.5693	6.0700e-003	0.1793	6.2900e-003	0.1856	0.0484	6.0000e-003	0.0544		637.7930	637.7930	0.0176		638.2341

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.6 23c - Haskins Valley Campground - Unplug Culverts - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1514	1.5357	2.2313	3.1200e-003		0.0758	0.0758		0.0698	0.0698	0.0000	301.5765	301.5765	0.0975		304.0149
Total	0.1514	1.5357	2.2313	3.1200e-003		0.0758	0.0758		0.0698	0.0698	0.0000	301.5765	301.5765	0.0975		304.0149

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0397	1.4532	0.2891	5.5400e-003	0.1282	5.8100e-003	0.1340	0.0349	5.5600e-003	0.0404		585.1642	585.1642	0.0147		585.5312
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0434	0.0244	0.2802	5.3000e-004	0.0511	4.8000e-004	0.0516	0.0136	4.4000e-004	0.0140		52.6288	52.6288	2.9600e-003		52.7029
Total	0.0831	1.4776	0.5693	6.0700e-003	0.1793	6.2900e-003	0.1856	0.0484	6.0000e-003	0.0544		637.7930	637.7930	0.0176		638.2341

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.7 24a - Hutchins Group Campground - Reconstruct Entrance - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	1.5587	14.7055	11.8638	0.0296		0.6436	0.6436		0.5921	0.5921		2,863.0596	2,863.0596	0.9260		2,886.2089
Total	1.5587	14.7055	11.8638	0.0296	0.2651	0.6436	0.9087	0.0286	0.5921	0.6207		2,863.0596	2,863.0596	0.9260		2,886.2089

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602
Total	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.7 24a - Hutchins Group Campground - Reconstruct Entrance - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2651	0.0000	0.2651	0.0286	0.0000	0.0286			0.0000			0.0000
Off-Road	1.5587	14.7055	11.8638	0.0296		0.6436	0.6436		0.5921	0.5921	0.0000	2,863.0596	2,863.0596	0.9260		2,886.2089
Total	1.5587	14.7055	11.8638	0.0296	0.2651	0.6436	0.9087	0.0286	0.5921	0.6207	0.0000	2,863.0596	2,863.0596	0.9260		2,886.2089

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602
Total	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.8 24b - Hutchins Group Campground - Dirt Resurfacing - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0189	0.0000	0.0189	2.0400e-003	0.0000	2.0400e-003			0.0000			0.0000
Off-Road	1.5587	14.7055	11.8638	0.0296		0.6436	0.6436		0.5921	0.5921		2,863.0596	2,863.0596	0.9260		2,886.2089
Total	1.5587	14.7055	11.8638	0.0296	0.0189	0.6436	0.6625	2.0400e-003	0.5921	0.5941		2,863.0596	2,863.0596	0.9260		2,886.2089

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602
Total	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.8 24b - Hutchins Group Campground - Dirt Resurfacing - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0189	0.0000	0.0189	2.0400e-003	0.0000	2.0400e-003			0.0000			0.0000
Off-Road	1.5587	14.7055	11.8638	0.0296		0.6436	0.6436		0.5921	0.5921	0.0000	2,863.0596	2,863.0596	0.9260		2,886.2089
Total	1.5587	14.7055	11.8638	0.0296	0.0189	0.6436	0.6625	2.0400e-003	0.5921	0.5941	0.0000	2,863.0596	2,863.0596	0.9260		2,886.2089

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602
Total	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.9 24c - Hutchins Group Campground - Culvert Outfall - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1514	1.5357	2.2313	3.1200e-003		0.0758	0.0758		0.0698	0.0698		301.5765	301.5765	0.0975		304.0149
Total	0.1514	1.5357	2.2313	3.1200e-003		0.0758	0.0758		0.0698	0.0698		301.5765	301.5765	0.0975		304.0149

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0159	0.5813	0.1156	2.2200e-003	0.0314	2.3300e-003	0.0338	9.0800e-003	2.2300e-003	0.0113		234.0657	234.0657	5.8700e-003		234.2125
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0434	0.0244	0.2802	5.3000e-004	0.0511	4.8000e-004	0.0516	0.0136	4.4000e-004	0.0140		52.6288	52.6288	2.9600e-003		52.7029
Total	0.0593	0.6057	0.3958	2.7500e-003	0.0825	2.8100e-003	0.0853	0.0226	2.6700e-003	0.0253		286.6945	286.6945	8.8300e-003		286.9154

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.9 24c - Hutchins Group Campground - Culvert Outfall - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1514	1.5357	2.2313	3.1200e-003		0.0758	0.0758		0.0698	0.0698	0.0000	301.5765	301.5765	0.0975		304.0149
Total	0.1514	1.5357	2.2313	3.1200e-003		0.0758	0.0758		0.0698	0.0698	0.0000	301.5765	301.5765	0.0975		304.0149

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0159	0.5813	0.1156	2.2200e-003	0.0314	2.3300e-003	0.0338	9.0800e-003	2.2300e-003	0.0113		234.0657	234.0657	5.8700e-003		234.2125
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0434	0.0244	0.2802	5.3000e-004	0.0511	4.8000e-004	0.0516	0.0136	4.4000e-004	0.0140		52.6288	52.6288	2.9600e-003		52.7029
Total	0.0593	0.6057	0.3958	2.7500e-003	0.0825	2.8100e-003	0.0853	0.0226	2.6700e-003	0.0253		286.6945	286.6945	8.8300e-003		286.9154

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.10 25c - Lower Bucks Campground - Reconstruct Intersection - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0219	0.0000	0.0219	2.3900e-003	0.0000	2.3900e-003			0.0000			0.0000
Off-Road	1.5587	14.7055	11.8638	0.0296		0.6436	0.6436		0.5921	0.5921		2,863.0596	2,863.0596	0.9260		2,886.2089
Total	1.5587	14.7055	11.8638	0.0296	0.0219	0.6436	0.6655	2.3900e-003	0.5921	0.5945		2,863.0596	2,863.0596	0.9260		2,886.2089

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.3500e-003	0.2325	0.0463	8.9000e-004	0.0245	9.3000e-004	0.0254	6.5500e-003	8.9000e-004	7.4400e-003		93.6263	93.6263	2.3500e-003		93.6850
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602
Total	0.1582	0.3178	1.0269	2.7400e-003	0.2033	2.6200e-003	0.2059	0.0540	2.4500e-003	0.0564		277.8271	277.8271	0.0127		278.1452

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.10 25c - Lower Bucks Campground - Reconstruct Intersection - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0219	0.0000	0.0219	2.3900e-003	0.0000	2.3900e-003			0.0000			0.0000
Off-Road	1.5587	14.7055	11.8638	0.0296		0.6436	0.6436		0.5921	0.5921	0.0000	2,863.0596	2,863.0596	0.9260		2,886.2089
Total	1.5587	14.7055	11.8638	0.0296	0.0219	0.6436	0.6655	2.3900e-003	0.5921	0.5945	0.0000	2,863.0596	2,863.0596	0.9260		2,886.2089

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.3500e-003	0.2325	0.0463	8.9000e-004	0.0245	9.3000e-004	0.0254	6.5500e-003	8.9000e-004	7.4400e-003		93.6263	93.6263	2.3500e-003		93.6850
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1519	0.0853	0.9806	1.8500e-003	0.1788	1.6900e-003	0.1805	0.0474	1.5600e-003	0.0490		184.2008	184.2008	0.0104		184.4602
Total	0.1582	0.3178	1.0269	2.7400e-003	0.2033	2.6200e-003	0.2059	0.0540	2.4500e-003	0.0564		277.8271	277.8271	0.0127		278.1452

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.11 26a - Mill Creek Campground - Resurfacing - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0196	0.0000	0.0196	2.1200e-003	0.0000	2.1200e-003			0.0000			0.0000
Off-Road	0.3244	3.2130	4.4090	6.7000e-003		0.1665	0.1665		0.1532	0.1532		648.5747	648.5747	0.2098		653.8188
Total	0.3244	3.2130	4.4090	6.7000e-003	0.0196	0.1665	0.1862	2.1200e-003	0.1532	0.1553		648.5747	648.5747	0.2098		653.8188

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0115	0.4198	0.0835	1.6000e-003	0.0486	1.6800e-003	0.0502	0.0129	1.6100e-003	0.0145		169.0474	169.0474	4.2400e-003		169.1535
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0365	0.4203	7.9000e-004	0.0766	7.2000e-004	0.0774	0.0203	6.7000e-004	0.0210		78.9432	78.9432	4.4500e-003		79.0544
Total	0.0766	0.4564	0.5038	2.3900e-003	0.1252	2.4000e-003	0.1276	0.0332	2.2800e-003	0.0355		247.9906	247.9906	8.6900e-003		248.2078

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.11 26a - Mill Creek Campground - Resurfacing - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0196	0.0000	0.0196	2.1200e-003	0.0000	2.1200e-003			0.0000			0.0000
Off-Road	0.3244	3.2130	4.4090	6.7000e-003		0.1665	0.1665		0.1532	0.1532	0.0000	648.5747	648.5747	0.2098		653.8188
Total	0.3244	3.2130	4.4090	6.7000e-003	0.0196	0.1665	0.1862	2.1200e-003	0.1532	0.1553	0.0000	648.5747	648.5747	0.2098		653.8188

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0115	0.4198	0.0835	1.6000e-003	0.0486	1.6800e-003	0.0502	0.0129	1.6100e-003	0.0145		169.0474	169.0474	4.2400e-003		169.1535
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0365	0.4203	7.9000e-004	0.0766	7.2000e-004	0.0774	0.0203	6.7000e-004	0.0210		78.9432	78.9432	4.4500e-003		79.0544
Total	0.0766	0.4564	0.5038	2.3900e-003	0.1252	2.4000e-003	0.1276	0.0332	2.2800e-003	0.0355		247.9906	247.9906	8.6900e-003		248.2078

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.12 26b - Mill Creek Campground - Culvert Replacement - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5000e-004	0.0000	6.5000e-004	1.0000e-004	0.0000	1.0000e-004			0.0000			0.0000
Off-Road	0.9976	8.2623	10.6298	0.0241		0.3692	0.3692		0.3397	0.3397		2,335.6783	2,335.6783	0.7554		2,354.5634
Total	0.9976	8.2623	10.6298	0.0241	6.5000e-004	0.3692	0.3699	1.0000e-004	0.3397	0.3398		2,335.6783	2,335.6783	0.7554		2,354.5634

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.8100e-003	0.2860	0.0569	1.0900e-003	0.0324	1.1400e-003	0.0336	8.6300e-003	1.0900e-003	9.7300e-003		115.1752	115.1752	2.8900e-003		115.2474
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1085	0.0609	0.7005	1.3200e-003	0.1277	1.2100e-003	0.1289	0.0339	1.1100e-003	0.0350		131.5720	131.5720	7.4100e-003		131.7573
Total	0.1163	0.3470	0.7574	2.4100e-003	0.1602	2.3500e-003	0.1625	0.0425	2.2000e-003	0.0447		246.7472	246.7472	0.0103		247.0047

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.12 26b - Mill Creek Campground - Culvert Replacement - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5000e-004	0.0000	6.5000e-004	1.0000e-004	0.0000	1.0000e-004			0.0000			0.0000
Off-Road	0.9976	8.2623	10.6298	0.0241		0.3692	0.3692		0.3397	0.3397	0.0000	2,335.6783	2,335.6783	0.7554		2,354.5634
Total	0.9976	8.2623	10.6298	0.0241	6.5000e-004	0.3692	0.3699	1.0000e-004	0.3397	0.3398	0.0000	2,335.6783	2,335.6783	0.7554		2,354.5634

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.8100e-003	0.2860	0.0569	1.0900e-003	0.0324	1.1400e-003	0.0336	8.6300e-003	1.0900e-003	9.7300e-003		115.1752	115.1752	2.8900e-003		115.2474
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1085	0.0609	0.7005	1.3200e-003	0.1277	1.2100e-003	0.1289	0.0339	1.1100e-003	0.0350		131.5720	131.5720	7.4100e-003		131.7573
Total	0.1163	0.3470	0.7574	2.4100e-003	0.1602	2.3500e-003	0.1625	0.0425	2.2000e-003	0.0447		246.7472	246.7472	0.0103		247.0047

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.13 16g - Three Lakes Rd - Culvert Outfall - 2024**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1439	1.4483	2.2356	3.1200e-003		0.0665	0.0665		0.0612	0.0612		301.7667	301.7667	0.0976		304.2067
Total	0.1439	1.4483	2.2356	3.1200e-003		0.0665	0.0665		0.0612	0.0612		301.7667	301.7667	0.0976		304.2067

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0153	0.5411	0.1142	2.2000e-003	0.0909	2.0200e-003	0.0929	0.0237	1.9300e-003	0.0256		232.3212	232.3212	5.6400e-003		232.4621
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0402	0.0217	0.2497	5.1000e-004	0.0511	4.5000e-004	0.0515	0.0136	4.2000e-004	0.0140		50.7089	50.7089	2.5500e-003		50.7727
Total	0.0554	0.5627	0.3638	2.7100e-003	0.1420	2.4700e-003	0.1445	0.0372	2.3500e-003	0.0396		283.0300	283.0300	8.1900e-003		283.2348

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.13 16g - Three Lakes Rd - Culvert Outfall - 2024**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1439	1.4483	2.2356	3.1200e-003		0.0665	0.0665		0.0612	0.0612	0.0000	301.7667	301.7667	0.0976		304.2067
Total	0.1439	1.4483	2.2356	3.1200e-003		0.0665	0.0665		0.0612	0.0612	0.0000	301.7667	301.7667	0.0976		304.2067

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0153	0.5411	0.1142	2.2000e-003	0.0909	2.0200e-003	0.0929	0.0237	1.9300e-003	0.0256		232.3212	232.3212	5.6400e-003		232.4621
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0402	0.0217	0.2497	5.1000e-004	0.0511	4.5000e-004	0.0515	0.0136	4.2000e-004	0.0140		50.7089	50.7089	2.5500e-003		50.7727
Total	0.0554	0.5627	0.3638	2.7100e-003	0.1420	2.4700e-003	0.1445	0.0372	2.3500e-003	0.0396		283.0300	283.0300	8.1900e-003		283.2348

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.14 28e - Sandy Point Day Use - Clear Vegetation - 2024**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0305	1.0821	0.2283	4.4000e-003	0.1223	4.0400e-003	0.1264	0.0328	3.8600e-003	0.0366		464.6423	464.6423	0.0113		464.9241
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1004	0.0542	0.6242	1.2800e-003	0.1277	1.1300e-003	0.1289	0.0339	1.0400e-003	0.0349		126.7722	126.7722	6.3900e-003		126.9318
Total	0.1310	1.1363	0.8525	5.6800e-003	0.2501	5.1700e-003	0.2552	0.0666	4.9000e-003	0.0715		591.4145	591.4145	0.0177		591.8560

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0305	1.0821	0.2283	4.4000e-003	0.1223	4.0400e-003	0.1264	0.0328	3.8600e-003	0.0366		464.6423	464.6423	0.0113		464.9241
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1004	0.0542	0.6242	1.2800e-003	0.1277	1.1300e-003	0.1289	0.0339	1.0400e-003	0.0349		126.7722	126.7722	6.3900e-003		126.9318
Total	0.1310	1.1363	0.8525	5.6800e-003	0.2501	5.1700e-003	0.2552	0.0666	4.9000e-003	0.0715		591.4145	591.4145	0.0177		591.8560

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.15 16a - Three Lakes Rd - Slope Stabilization - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6447	4.0877	6.4448	0.0184		0.1623	0.1623		0.1493	0.1493		1,780.0133	1,780.0133	0.5757		1,794.4056
Total	0.6447	4.0877	6.4448	0.0184	3.0000e-005	0.1623	0.1624	0.0000	0.1493	0.1493		1,780.0133	1,780.0133	0.5757		1,794.4056

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1172	4.0389	0.8950	0.0174	0.5326	0.0143	0.5469	0.1415	0.0136	0.1552		1,832.2271	1,832.2271	0.0430		1,833.3030
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0560	0.0293	0.3419	7.4000e-004	0.0766	6.5000e-004	0.0773	0.0203	6.0000e-004	0.0209		73.2151	73.2151	3.4100e-003		73.3004
Total	0.1732	4.0682	1.2369	0.0181	0.6093	0.0149	0.6242	0.1618	0.0142	0.1761		1,905.4423	1,905.4423	0.0465		1,906.6034

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.15 16a - Three Lakes Rd - Slope Stabilization - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6447	4.0877	6.4448	0.0184		0.1623	0.1623		0.1493	0.1493	0.0000	1,780.0133	1,780.0133	0.5757		1,794.4056
Total	0.6447	4.0877	6.4448	0.0184	3.0000e-005	0.1623	0.1624	0.0000	0.1493	0.1493	0.0000	1,780.0133	1,780.0133	0.5757		1,794.4056

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1172	4.0389	0.8950	0.0174	0.5326	0.0143	0.5469	0.1415	0.0136	0.1552		1,832.2271	1,832.2271	0.0430		1,833.3030
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0560	0.0293	0.3419	7.4000e-004	0.0766	6.5000e-004	0.0773	0.0203	6.0000e-004	0.0209		73.2151	73.2151	3.4100e-003		73.3004
Total	0.1732	4.0682	1.2369	0.0181	0.6093	0.0149	0.6242	0.1618	0.0142	0.1761		1,905.4423	1,905.4423	0.0465		1,906.6034

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.16 16b - Three Lakes Rd - Gravel Resurfacing - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1079	0.0000	0.1079	0.0117	0.0000	0.0117			0.0000			0.0000
Off-Road	0.1722	1.5864	2.4401	3.6100e-003		0.0639	0.0639		0.0595	0.0595		336.5352	336.5352	0.1013		339.0670
Total	0.1722	1.5864	2.4401	3.6100e-003	0.1079	0.0639	0.1717	0.0117	0.0595	0.0713		336.5352	336.5352	0.1013		339.0670

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0148	0.5088	0.1128	2.1900e-003	0.0512	1.8000e-003	0.0530	0.0139	1.7200e-003	0.0157		230.8318	230.8318	5.4200e-003		230.9673
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0560	0.0293	0.3419	7.4000e-004	0.0766	6.5000e-004	0.0773	0.0203	6.0000e-004	0.0209		73.2151	73.2151	3.4100e-003		73.3004
Total	0.0708	0.5382	0.4546	2.9300e-003	0.1279	2.4500e-003	0.1303	0.0343	2.3200e-003	0.0366		304.0469	304.0469	8.8300e-003		304.2677

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.16 16b - Three Lakes Rd - Gravel Resurfacing - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1079	0.0000	0.1079	0.0117	0.0000	0.0117			0.0000			0.0000
Off-Road	0.1722	1.5864	2.4401	3.6100e-003		0.0639	0.0639		0.0595	0.0595	0.0000	336.5352	336.5352	0.1013		339.0670
Total	0.1722	1.5864	2.4401	3.6100e-003	0.1079	0.0639	0.1717	0.0117	0.0595	0.0713	0.0000	336.5352	336.5352	0.1013		339.0670

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0148	0.5088	0.1128	2.1900e-003	0.0512	1.8000e-003	0.0530	0.0139	1.7200e-003	0.0157		230.8318	230.8318	5.4200e-003		230.9673
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0560	0.0293	0.3419	7.4000e-004	0.0766	6.5000e-004	0.0773	0.0203	6.0000e-004	0.0209		73.2151	73.2151	3.4100e-003		73.3004
Total	0.0708	0.5382	0.4546	2.9300e-003	0.1279	2.4500e-003	0.1303	0.0343	2.3200e-003	0.0366		304.0469	304.0469	8.8300e-003		304.2677

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.17 16c - Three Lakes Rd - Replace Pavement - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	0.3190	2.8511	4.9866	7.6800e-003		0.1264	0.1264		0.1171	0.1171		730.8526	730.8526	0.2288		736.5727
Total	0.3190	2.8511	4.9866	7.6800e-003	0.1061	0.1264	0.2325	0.0115	0.1171	0.1285		730.8526	730.8526	0.2288		736.5727

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0295	1.0177	0.2255	4.3700e-003	0.1025	3.5900e-003	0.1061	0.0279	3.4300e-003	0.0313		461.6635	461.6635	0.0108		461.9346
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0747	0.0391	0.4558	9.8000e-004	0.1022	8.7000e-004	0.1031	0.0271	8.0000e-004	0.0279		97.6202	97.6202	4.5500e-003		97.7339
Total	0.1043	1.0568	0.6813	5.3500e-003	0.2047	4.4600e-003	0.2091	0.0550	4.2300e-003	0.0592		559.2837	559.2837	0.0154		559.6685

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.17 16c - Three Lakes Rd - Replace Pavement - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	0.3190	2.8511	4.9866	7.6800e-003		0.1264	0.1264		0.1171	0.1171	0.0000	730.8526	730.8526	0.2288		736.5727
Total	0.3190	2.8511	4.9866	7.6800e-003	0.1061	0.1264	0.2325	0.0115	0.1171	0.1285	0.0000	730.8526	730.8526	0.2288		736.5727

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0295	1.0177	0.2255	4.3700e-003	0.1025	3.5900e-003	0.1061	0.0279	3.4300e-003	0.0313		461.6635	461.6635	0.0108		461.9346
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0747	0.0391	0.4558	9.8000e-004	0.1022	8.7000e-004	0.1031	0.0271	8.0000e-004	0.0279		97.6202	97.6202	4.5500e-003		97.7339
Total	0.1043	1.0568	0.6813	5.3500e-003	0.2047	4.4600e-003	0.2091	0.0550	4.2300e-003	0.0592		559.2837	559.2837	0.0154		559.6685

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.18 16d - Three Lakes Rd - Unplug Culverts - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.9200e-003	0.1696	0.0376	7.3000e-004	0.0224	6.0000e-004	0.0230	5.9400e-003	5.7000e-004	6.5200e-003		76.9439	76.9439	1.8100e-003		76.9891
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0374	0.0195	0.2279	4.9000e-004	0.0511	4.3000e-004	0.0515	0.0136	4.0000e-004	0.0140		48.8101	48.8101	2.2700e-003		48.8669
Total	0.0423	0.1892	0.2655	1.2200e-003	0.0735	1.0300e-003	0.0745	0.0195	9.7000e-004	0.0205		125.7540	125.7540	4.0800e-003		125.8560

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.18 16d - Three Lakes Rd - Unplug Culverts - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.9200e-003	0.1696	0.0376	7.3000e-004	0.0224	6.0000e-004	0.0230	5.9400e-003	5.7000e-004	6.5200e-003		76.9439	76.9439	1.8100e-003		76.9891
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0374	0.0195	0.2279	4.9000e-004	0.0511	4.3000e-004	0.0515	0.0136	4.0000e-004	0.0140		48.8101	48.8101	2.2700e-003		48.8669
Total	0.0423	0.1892	0.2655	1.2200e-003	0.0735	1.0300e-003	0.0745	0.0195	9.7000e-004	0.0205		125.7540	125.7540	4.0800e-003		125.8560

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.19 16h - Three Lakes Rd - Water Crossings - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7768	5.4228	8.6745	0.0215		0.2164	0.2164		0.1991	0.1991		2,082.069 2	2,082.069 2	0.6734		2,098.903 8
Total	0.7768	5.4228	8.6745	0.0215		0.2164	0.2164		0.1991	0.1991		2,082.069 2	2,082.069 2	0.6734		2,098.903 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1100e-003	0.0727	0.0161	3.1000e-004	9.5900e-003	2.6000e-004	9.8400e-003	2.5500e-003	2.5000e-004	2.7900e-003		32.9760	32.9760	7.7000e-004		32.9953
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0747	0.0391	0.4558	9.8000e-004	0.1022	8.7000e-004	0.1031	0.0271	8.0000e-004	0.0279		97.6202	97.6202	4.5500e-003		97.7339
Total	0.0768	0.1118	0.4719	1.2900e-003	0.1118	1.1300e-003	0.1129	0.0297	1.0500e-003	0.0307		130.5962	130.5962	5.3200e-003		130.7292

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.19 16h - Three Lakes Rd - Water Crossings - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7768	5.4228	8.6745	0.0215		0.2164	0.2164		0.1991	0.1991	0.0000	2,082.069 2	2,082.069 2	0.6734		2,098.903 8
Total	0.7768	5.4228	8.6745	0.0215		0.2164	0.2164		0.1991	0.1991	0.0000	2,082.069 2	2,082.069 2	0.6734		2,098.903 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.1100e-003	0.0727	0.0161	3.1000e-004	9.5900e-003	2.6000e-004	9.8400e-003	2.5500e-003	2.5000e-004	2.7900e-003		32.9760	32.9760	7.7000e-004		32.9953
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0747	0.0391	0.4558	9.8000e-004	0.1022	8.7000e-004	0.1031	0.0271	8.0000e-004	0.0279		97.6202	97.6202	4.5500e-003		97.7339
Total	0.0768	0.1118	0.4719	1.2900e-003	0.1118	1.1300e-003	0.1129	0.0297	1.0500e-003	0.0307		130.5962	130.5962	5.3200e-003		130.7292

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.20 26d - Mill Creek Campground - Repave - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2200e-003	0.0000	8.2200e-003	8.9000e-004	0.0000	8.9000e-004			0.0000			0.0000
Off-Road	0.2838	2.7077	4.3932	6.7000e-003		0.1351	0.1351		0.1243	0.1243		648.3793	648.3793	0.2097		653.6218
Total	0.2838	2.7077	4.3932	6.7000e-003	8.2200e-003	0.1351	0.1434	8.9000e-004	0.1243	0.1252		648.3793	648.3793	0.2097		653.6218

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.7200e-003	0.1972	0.0437	8.5000e-004	0.0258	7.0000e-004	0.0265	6.8600e-003	6.7000e-004	7.5300e-003		89.4697	89.4697	2.1000e-003		89.5222
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0560	0.0293	0.3419	7.4000e-004	0.0766	6.5000e-004	0.0773	0.0203	6.0000e-004	0.0209		73.2151	73.2151	3.4100e-003		73.3004
Total	0.0618	0.2265	0.3856	1.5900e-003	0.1025	1.3500e-003	0.1038	0.0272	1.2700e-003	0.0285		162.6848	162.6848	5.5100e-003		162.8226

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.20 26d - Mill Creek Campground - Repave - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.2200e-003	0.0000	8.2200e-003	8.9000e-004	0.0000	8.9000e-004			0.0000			0.0000
Off-Road	0.2838	2.7077	4.3932	6.7000e-003		0.1351	0.1351		0.1243	0.1243	0.0000	648.3793	648.3793	0.2097		653.6218
Total	0.2838	2.7077	4.3932	6.7000e-003	8.2200e-003	0.1351	0.1434	8.9000e-004	0.1243	0.1252	0.0000	648.3793	648.3793	0.2097		653.6218

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.7200e-003	0.1972	0.0437	8.5000e-004	0.0258	7.0000e-004	0.0265	6.8600e-003	6.7000e-004	7.5300e-003		89.4697	89.4697	2.1000e-003		89.5222
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0560	0.0293	0.3419	7.4000e-004	0.0766	6.5000e-004	0.0773	0.0203	6.0000e-004	0.0209		73.2151	73.2151	3.4100e-003		73.3004
Total	0.0618	0.2265	0.3856	1.5900e-003	0.1025	1.3500e-003	0.1038	0.0272	1.2700e-003	0.0285		162.6848	162.6848	5.5100e-003		162.8226

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.21 28a - Sandy Point Day Use - Replace Roadway - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0108	0.0000	0.0108	1.2300e-003	0.0000	1.2300e-003			0.0000			0.0000
Off-Road	1.7087	14.7617	16.0654	0.0368		0.6417	0.6417		0.5904	0.5904		3,557.4086	3,557.4086	1.1505		3,586.1721
Total	1.7087	14.7617	16.0654	0.0368	0.0108	0.6417	0.6525	1.2300e-003	0.5904	0.5916		3,557.4086	3,557.4086	1.1505		3,586.1721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0301	1.0359	0.2296	4.4500e-003	0.1366	3.6500e-003	0.1403	0.0363	3.5000e-003	0.0398		469.9075	469.9075	0.0110		470.1835
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1494	0.0782	0.9116	1.9600e-003	0.2044	1.7300e-003	0.2061	0.0542	1.5900e-003	0.0558		195.2404	195.2404	9.0900e-003		195.4677
Total	0.1795	1.1140	1.1411	6.4100e-003	0.3410	5.3800e-003	0.3464	0.0905	5.0900e-003	0.0956		665.1479	665.1479	0.0201		665.6512

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.21 28a - Sandy Point Day Use - Replace Roadway - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0108	0.0000	0.0108	1.2300e-003	0.0000	1.2300e-003			0.0000			0.0000
Off-Road	1.7087	14.7617	16.0654	0.0368		0.6417	0.6417		0.5904	0.5904	0.0000	3,557.4086	3,557.4086	1.1505		3,586.1720
Total	1.7087	14.7617	16.0654	0.0368	0.0108	0.6417	0.6525	1.2300e-003	0.5904	0.5916	0.0000	3,557.4086	3,557.4086	1.1505		3,586.1720

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0301	1.0359	0.2296	4.4500e-003	0.1366	3.6500e-003	0.1403	0.0363	3.5000e-003	0.0398		469.9075	469.9075	0.0110		470.1835
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1494	0.0782	0.9116	1.9600e-003	0.2044	1.7300e-003	0.2061	0.0542	1.5900e-003	0.0558		195.2404	195.2404	9.0900e-003		195.4677
Total	0.1795	1.1140	1.1411	6.4100e-003	0.3410	5.3800e-003	0.3464	0.0905	5.0900e-003	0.0956		665.1479	665.1479	0.0201		665.6512

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.22 28b - Sandy Point Day Use - Reconstruct - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0379	0.0000	0.0379	4.0900e-003	0.0000	4.0900e-003			0.0000			0.0000
Off-Road	2.0087	17.0104	17.4419	0.0439		0.7143	0.7143		0.6648	0.6648		4,236.854 1	4,236.854 1	1.1918		4,266.649 3
Total	2.0087	17.0104	17.4419	0.0439	0.0379	0.7143	0.7522	4.0900e-003	0.6648	0.6689		4,236.854 1	4,236.854 1	1.1918		4,266.649 3

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0251	0.8632	0.1913	3.7100e-003	0.1138	3.0500e-003	0.1169	0.0303	2.9100e-003	0.0332		391.5896	391.5896	9.2000e-003		391.8196
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1868	0.0977	1.1395	2.4500e-003	0.2555	2.1700e-003	0.2576	0.0678	1.9900e-003	0.0697		244.0505	244.0505	0.0114		244.3347
Total	0.2119	0.9609	1.3308	6.1600e-003	0.3693	5.2200e-003	0.3745	0.0980	4.9000e-003	0.1029		635.6401	635.6401	0.0206		636.1542

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.22 28b - Sandy Point Day Use - Reconstruct - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0379	0.0000	0.0379	4.0900e-003	0.0000	4.0900e-003			0.0000			0.0000
Off-Road	2.0087	17.0104	17.4419	0.0439		0.7143	0.7143		0.6648	0.6648	0.0000	4,236.854 1	4,236.854 1	1.1918		4,266.649 3
Total	2.0087	17.0104	17.4419	0.0439	0.0379	0.7143	0.7522	4.0900e-003	0.6648	0.6689	0.0000	4,236.854 1	4,236.854 1	1.1918		4,266.649 3

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0251	0.8632	0.1913	3.7100e-003	0.1138	3.0500e-003	0.1169	0.0303	2.9100e-003	0.0332		391.5896	391.5896	9.2000e-003		391.8196
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1868	0.0977	1.1395	2.4500e-003	0.2555	2.1700e-003	0.2576	0.0678	1.9900e-003	0.0697		244.0505	244.0505	0.0114		244.3347
Total	0.2119	0.9609	1.3308	6.1600e-003	0.3693	5.2200e-003	0.3745	0.0980	4.9000e-003	0.1029		635.6401	635.6401	0.0206		636.1542

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.23 28c - Sandy Point Day Use - Culvert Replacement - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3000e-004	0.0000	7.3000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000			0.0000
Off-Road	0.9138	6.8658	10.5212	0.0241		0.2890	0.2890		0.2659	0.2659		2,336.1311	2,336.1311	0.7556		2,355.0199
Total	0.9138	6.8658	10.5212	0.0241	7.3000e-004	0.2890	0.2897	1.1000e-004	0.2659	0.2660		2,336.1311	2,336.1311	0.7556		2,355.0199

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.4400e-003	0.2908	0.0644	1.2500e-003	0.0383	1.0300e-003	0.0394	0.0102	9.8000e-004	0.0112		131.9039	131.9039	3.1000e-003		131.9813
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0934	0.0489	0.5698	1.2300e-003	0.1277	1.0800e-003	0.1288	0.0339	1.0000e-003	0.0349		122.0252	122.0252	5.6800e-003		122.1673
Total	0.1018	0.3396	0.6342	2.4800e-003	0.1661	2.1100e-003	0.1682	0.0441	1.9800e-003	0.0460		253.9291	253.9291	8.7800e-003		254.1487

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.23 28c - Sandy Point Day Use - Culvert Replacement - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3000e-004	0.0000	7.3000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000			0.0000
Off-Road	0.9138	6.8658	10.5212	0.0241		0.2890	0.2890		0.2659	0.2659	0.0000	2,336.1311	2,336.1311	0.7556		2,355.0199
Total	0.9138	6.8658	10.5212	0.0241	7.3000e-004	0.2890	0.2897	1.1000e-004	0.2659	0.2660	0.0000	2,336.1311	2,336.1311	0.7556		2,355.0199

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.4400e-003	0.2908	0.0644	1.2500e-003	0.0383	1.0300e-003	0.0394	0.0102	9.8000e-004	0.0112		131.9039	131.9039	3.1000e-003		131.9813
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0934	0.0489	0.5698	1.2300e-003	0.1277	1.0800e-003	0.1288	0.0339	1.0000e-003	0.0349		122.0252	122.0252	5.6800e-003		122.1673
Total	0.1018	0.3396	0.6342	2.4800e-003	0.1661	2.1100e-003	0.1682	0.0441	1.9800e-003	0.0460		253.9291	253.9291	8.7800e-003		254.1487

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.24 28d - Sandy Point Day Use - Unplug Culverts - 2025**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0118	0.4071	0.0902	1.7500e-003	0.0410	1.4400e-003	0.0424	0.0112	1.3700e-003	0.0125		184.6654	184.6654	4.3400e-003		184.7739
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0374	0.0195	0.2279	4.9000e-004	0.0511	4.3000e-004	0.0515	0.0136	4.0000e-004	0.0140		48.8101	48.8101	2.2700e-003		48.8669
Total	0.0492	0.4266	0.3181	2.2400e-003	0.0921	1.8700e-003	0.0940	0.0247	1.7700e-003	0.0265		233.4755	233.4755	6.6100e-003		233.6408

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.24 28d - Sandy Point Day Use - Unplug Culverts - 2025**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0118	0.4071	0.0902	1.7500e-003	0.0410	1.4400e-003	0.0424	0.0112	1.3700e-003	0.0125		184.6654	184.6654	4.3400e-003		184.7739
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0374	0.0195	0.2279	4.9000e-004	0.0511	4.3000e-004	0.0515	0.0136	4.0000e-004	0.0140		48.8101	48.8101	2.2700e-003		48.8669
Total	0.0492	0.4266	0.3181	2.2400e-003	0.0921	1.8700e-003	0.0940	0.0247	1.7700e-003	0.0265		233.4755	233.4755	6.6100e-003		233.6408

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.25 16f - Three Lakes Rd - Culvert Replacement - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0500e-003	0.0000	1.0500e-003	1.6000e-004	0.0000	1.6000e-004			0.0000			0.0000
Off-Road	1.8276	13.7317	21.0425	0.0483		0.5780	0.5780		0.5318	0.5318		4,672.2622	4,672.2622	1.5111		4,710.0398
Total	1.8276	13.7317	21.0425	0.0483	1.0500e-003	0.5780	0.5791	1.6000e-004	0.5318	0.5319		4,672.2622	4,672.2622	1.5111		4,710.0398

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0114	0.3808	0.0887	1.7100e-003	0.0522	1.2800e-003	0.0535	0.0139	1.2300e-003	0.0151		180.4200	180.4200	4.1500e-003		180.5237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1732	0.0884	1.0412	2.3700e-003	0.2555	2.0800e-003	0.2575	0.0678	1.9100e-003	0.0697		235.4818	235.4818	0.0101		235.7345
Total	0.1846	0.4692	1.1298	4.0800e-003	0.3076	3.3600e-003	0.3110	0.0816	3.1400e-003	0.0848		415.9018	415.9018	0.0143		416.2582

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.25 16f - Three Lakes Rd - Culvert Replacement - 2026**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0500e-003	0.0000	1.0500e-003	1.6000e-004	0.0000	1.6000e-004			0.0000			0.0000
Off-Road	1.8276	13.7317	21.0425	0.0483		0.5780	0.5780		0.5318	0.5318	0.0000	4,672.2622	4,672.2622	1.5111		4,710.0398
Total	1.8276	13.7317	21.0425	0.0483	1.0500e-003	0.5780	0.5791	1.6000e-004	0.5318	0.5319	0.0000	4,672.2622	4,672.2622	1.5111		4,710.0398

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0114	0.3808	0.0887	1.7100e-003	0.0522	1.2800e-003	0.0535	0.0139	1.2300e-003	0.0151		180.4200	180.4200	4.1500e-003		180.5237
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1732	0.0884	1.0412	2.3700e-003	0.2555	2.0800e-003	0.2575	0.0678	1.9100e-003	0.0697		235.4818	235.4818	0.0101		235.7345
Total	0.1846	0.4692	1.1298	4.0800e-003	0.3076	3.3600e-003	0.3110	0.0816	3.1400e-003	0.0848		415.9018	415.9018	0.0143		416.2582

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.26 25a - Lower Bucks Campground - Reconstruct Entrance - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0186	0.0000	0.0186	2.1600e-003	0.0000	2.1600e-003			0.0000			0.0000
Off-Road	1.7087	14.7617	16.0654	0.0368		0.6417	0.6417		0.5904	0.5904		3,557.4086	3,557.4086	1.1505		3,586.1721
Total	1.7087	14.7617	16.0654	0.0368	0.0186	0.6417	0.6603	2.1600e-003	0.5904	0.5925		3,557.4086	3,557.4086	1.1505		3,586.1721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0596	1.9942	0.4643	8.9400e-003	0.2672	6.7100e-003	0.2739	0.0712	6.4200e-003	0.0776		944.7448	944.7448	0.0217		945.2878
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1386	0.0707	0.8329	1.8900e-003	0.2044	1.6600e-003	0.2060	0.0542	1.5300e-003	0.0557		188.3854	188.3854	8.0900e-003		188.5876
Total	0.1981	2.0649	1.2973	0.0108	0.4716	8.3700e-003	0.4800	0.1254	7.9500e-003	0.1333		1,133.1302	1,133.1302	0.0298		1,133.8754

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.26 25a - Lower Bucks Campground - Reconstruct Entrance - 2026**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0186	0.0000	0.0186	2.1600e-003	0.0000	2.1600e-003			0.0000			0.0000
Off-Road	1.7087	14.7617	16.0654	0.0368		0.6417	0.6417		0.5904	0.5904	0.0000	3,557.4086	3,557.4086	1.1505		3,586.1720
Total	1.7087	14.7617	16.0654	0.0368	0.0186	0.6417	0.6603	2.1600e-003	0.5904	0.5925	0.0000	3,557.4086	3,557.4086	1.1505		3,586.1720

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0596	1.9942	0.4643	8.9400e-003	0.2672	6.7100e-003	0.2739	0.0712	6.4200e-003	0.0776		944.7448	944.7448	0.0217		945.2878
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1386	0.0707	0.8329	1.8900e-003	0.2044	1.6600e-003	0.2060	0.0542	1.5300e-003	0.0557		188.3854	188.3854	8.0900e-003		188.5876
Total	0.1981	2.0649	1.2973	0.0108	0.4716	8.3700e-003	0.4800	0.1254	7.9500e-003	0.1333		1,133.1302	1,133.1302	0.0298		1,133.8754

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.27 25b - Lower Bucks Campground - Construct Roads - 2026**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0179	0.0000	0.0179	2.0400e-003	0.0000	2.0400e-003			0.0000			0.0000
Off-Road	1.7087	14.7617	16.0654	0.0368		0.6417	0.6417		0.5904	0.5904		3,557.4086	3,557.4086	1.1505		3,586.1721
Total	1.7087	14.7617	16.0654	0.0368	0.0179	0.6417	0.6595	2.0400e-003	0.5904	0.5924		3,557.4086	3,557.4086	1.1505		3,586.1721

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0463	1.5511	0.3611	6.9600e-003	0.2078	5.2200e-003	0.2131	0.0554	5.0000e-003	0.0604		734.8015	734.8015	0.0169		735.2239
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1386	0.0707	0.8329	1.8900e-003	0.2044	1.6600e-003	0.2060	0.0542	1.5300e-003	0.0557		188.3854	188.3854	8.0900e-003		188.5876
Total	0.1849	1.6218	1.1941	8.8500e-003	0.4122	6.8800e-003	0.4191	0.1096	6.5300e-003	0.1161		923.1869	923.1869	0.0250		923.8114

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.27 25b - Lower Bucks Campground - Construct Roads - 2026**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0179	0.0000	0.0179	2.0400e-003	0.0000	2.0400e-003			0.0000			0.0000
Off-Road	1.7087	14.7617	16.0654	0.0368		0.6417	0.6417		0.5904	0.5904	0.0000	3,557.4086	3,557.4086	1.1505		3,586.1720
Total	1.7087	14.7617	16.0654	0.0368	0.0179	0.6417	0.6595	2.0400e-003	0.5904	0.5924	0.0000	3,557.4086	3,557.4086	1.1505		3,586.1720

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0463	1.5511	0.3611	6.9600e-003	0.2078	5.2200e-003	0.2131	0.0554	5.0000e-003	0.0604		734.8015	734.8015	0.0169		735.2239
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1386	0.0707	0.8329	1.8900e-003	0.2044	1.6600e-003	0.2060	0.0542	1.5300e-003	0.0557		188.3854	188.3854	8.0900e-003		188.5876
Total	0.1849	1.6218	1.1941	8.8500e-003	0.4122	6.8800e-003	0.4191	0.1096	6.5300e-003	0.1161		923.1869	923.1869	0.0250		923.8114

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.28 16e - Three Lakes Rd - Ditches - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4200e-003	0.0000	2.4200e-003	3.7000e-004	0.0000	3.7000e-004			0.0000			0.0000
Off-Road	1.8276	13.7317	21.0425	0.0483		0.5780	0.5780		0.5318	0.5318		4,672.2622	4,672.2622	1.5111		4,710.0398
Total	1.8276	13.7317	21.0425	0.0483	2.4200e-003	0.5780	0.5804	3.7000e-004	0.5318	0.5321		4,672.2622	4,672.2622	1.5111		4,710.0398

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0231	0.7524	0.1838	3.5300e-003	0.1079	2.3900e-003	0.1103	0.0287	2.2800e-003	0.0310		372.5569	372.5569	8.3100e-003		372.7645
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1622	0.0801	0.9574	2.2900e-003	0.2555	1.9700e-003	0.2574	0.0678	1.8100e-003	0.0696		227.6756	227.6756	9.0600e-003		227.9020
Total	0.1853	0.8325	1.1412	5.8200e-003	0.3634	4.3600e-003	0.3677	0.0964	4.0900e-003	0.1005		600.2324	600.2324	0.0174		600.6666

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.28 16e - Three Lakes Rd - Ditches - 2027**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4200e-003	0.0000	2.4200e-003	3.7000e-004	0.0000	3.7000e-004			0.0000			0.0000
Off-Road	1.8276	13.7317	21.0425	0.0483		0.5780	0.5780		0.5318	0.5318	0.0000	4,672.2622	4,672.2622	1.5111		4,710.0398
Total	1.8276	13.7317	21.0425	0.0483	2.4200e-003	0.5780	0.5804	3.7000e-004	0.5318	0.5321	0.0000	4,672.2622	4,672.2622	1.5111		4,710.0398

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0231	0.7524	0.1838	3.5300e-003	0.1079	2.3900e-003	0.1103	0.0287	2.2800e-003	0.0310		372.5569	372.5569	8.3100e-003		372.7645
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1622	0.0801	0.9574	2.2900e-003	0.2555	1.9700e-003	0.2574	0.0678	1.8100e-003	0.0696		227.6756	227.6756	9.0600e-003		227.9020
Total	0.1853	0.8325	1.1412	5.8200e-003	0.3634	4.3600e-003	0.3677	0.0964	4.0900e-003	0.1005		600.2324	600.2324	0.0174		600.6666

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.29 17c - Bucks Penstock Rd - Ditches - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.1000e-004	0.0000	5.1000e-004	8.0000e-005	0.0000	8.0000e-005			0.0000			0.0000
Off-Road	0.9138	6.8658	10.5212	0.0241		0.2890	0.2890		0.2659	0.2659		2,336.1311	2,336.1311	0.7556		2,355.0199
Total	0.9138	6.8658	10.5212	0.0241	5.1000e-004	0.2890	0.2895	8.0000e-005	0.2659	0.2660		2,336.1311	2,336.1311	0.7556		2,355.0199

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.6700e-003	0.1845	0.0451	8.7000e-004	0.0222	5.9000e-004	0.0228	6.0000e-003	5.6000e-004	6.5600e-003		91.3716	91.3716	2.0400e-003		91.4225
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0811	0.0400	0.4787	1.1400e-003	0.1277	9.8000e-004	0.1287	0.0339	9.0000e-004	0.0348		113.8378	113.8378	4.5300e-003		113.9510
Total	0.0867	0.2246	0.5238	2.0100e-003	0.1500	1.5700e-003	0.1515	0.0399	1.4600e-003	0.0413		205.2094	205.2094	6.5700e-003		205.3736

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.29 17c - Bucks Penstock Rd - Ditches - 2027**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.1000e-004	0.0000	5.1000e-004	8.0000e-005	0.0000	8.0000e-005			0.0000			0.0000
Off-Road	0.9138	6.8658	10.5212	0.0241		0.2890	0.2890		0.2659	0.2659	0.0000	2,336.1311	2,336.1311	0.7556		2,355.0199
Total	0.9138	6.8658	10.5212	0.0241	5.1000e-004	0.2890	0.2895	8.0000e-005	0.2659	0.2660	0.0000	2,336.1311	2,336.1311	0.7556		2,355.0199

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.6700e-003	0.1845	0.0451	8.7000e-004	0.0222	5.9000e-004	0.0228	6.0000e-003	5.6000e-004	6.5600e-003		91.3716	91.3716	2.0400e-003		91.4225
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0811	0.0400	0.4787	1.1400e-003	0.1277	9.8000e-004	0.1287	0.0339	9.0000e-004	0.0348		113.8378	113.8378	4.5300e-003		113.9510
Total	0.0867	0.2246	0.5238	2.0100e-003	0.1500	1.5700e-003	0.1515	0.0399	1.4600e-003	0.0413		205.2094	205.2094	6.5700e-003		205.3736

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.30 26c - Mill Creek Campground - Unplug Culverts - 2027**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.0900e-003	0.2307	0.0564	1.0800e-003	0.0190	7.3000e-004	0.0197	5.3400e-003	7.0000e-004	6.0400e-003		114.2145	114.2145	2.5500e-003		114.2782
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0324	0.0160	0.1915	4.6000e-004	0.0511	3.9000e-004	0.0515	0.0136	3.6000e-004	0.0139		45.5351	45.5351	1.8100e-003		45.5804
Total	0.0395	0.2467	0.2478	1.5400e-003	0.0701	1.1200e-003	0.0712	0.0189	1.0600e-003	0.0200		159.7496	159.7496	4.3600e-003		159.8586

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.30 26c - Mill Creek Campground - Unplug Culverts - 2027**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.0900e-003	0.2307	0.0564	1.0800e-003	0.0190	7.3000e-004	0.0197	5.3400e-003	7.0000e-004	6.0400e-003		114.2145	114.2145	2.5500e-003		114.2782
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0324	0.0160	0.1915	4.6000e-004	0.0511	3.9000e-004	0.0515	0.0136	3.6000e-004	0.0139		45.5351	45.5351	1.8100e-003		45.5804
Total	0.0395	0.2467	0.2478	1.5400e-003	0.0701	1.1200e-003	0.0712	0.0189	1.0600e-003	0.0200		159.7496	159.7496	4.3600e-003		159.8586

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.31 23b - Haskins Valley Campground - Ditches - 2028**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5000e-004	0.0000	4.5000e-004	7.0000e-005	0.0000	7.0000e-005			0.0000			0.0000
Off-Road	0.7768	5.4228	8.6745	0.0215		0.2164	0.2164		0.1991	0.1991		2,082.0692	2,082.0692	0.6734		2,098.9038
Total	0.7768	5.4228	8.6745	0.0215	4.5000e-004	0.2164	0.2169	7.0000e-005	0.1991	0.1992		2,082.0692	2,082.0692	0.6734		2,098.9038

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2000e-003	0.1329	0.0339	6.5000e-004	0.0205	4.1000e-004	0.0209	5.4300e-003	3.9000e-004	5.8200e-003		68.1857	68.1857	1.4900e-003		68.2229
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0288	0.3521	8.9000e-004	0.1022	7.3000e-004	0.1029	0.0271	6.7000e-004	0.0278		88.2393	88.2393	3.2500e-003		88.3206
Total	0.0644	0.1617	0.3859	1.5400e-003	0.1226	1.1400e-003	0.1238	0.0325	1.0600e-003	0.0336		156.4250	156.4250	4.7400e-003		156.5434

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.31 23b - Haskins Valley Campground - Ditches - 2028**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.5000e-004	0.0000	4.5000e-004	7.0000e-005	0.0000	7.0000e-005			0.0000			0.0000
Off-Road	0.7768	5.4228	8.6745	0.0215		0.2164	0.2164		0.1991	0.1991	0.0000	2,082.0692	2,082.0692	0.6734		2,098.9038
Total	0.7768	5.4228	8.6745	0.0215	4.5000e-004	0.2164	0.2169	7.0000e-005	0.1991	0.1992	0.0000	2,082.0692	2,082.0692	0.6734		2,098.9038

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.2000e-003	0.1329	0.0339	6.5000e-004	0.0205	4.1000e-004	0.0209	5.4300e-003	3.9000e-004	5.8200e-003		68.1857	68.1857	1.4900e-003		68.2229
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0288	0.3521	8.9000e-004	0.1022	7.3000e-004	0.1029	0.0271	6.7000e-004	0.0278		88.2393	88.2393	3.2500e-003		88.3206
Total	0.0644	0.1617	0.3859	1.5400e-003	0.1226	1.1400e-003	0.1238	0.0325	1.0600e-003	0.0336		156.4250	156.4250	4.7400e-003		156.5434

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.32 18a - Grizzly Forebay Rd - Culvert Replacement - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3000e-004	0.0000	7.3000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000			0.0000
Off-Road	0.9138	6.8658	10.5212	0.0241		0.2890	0.2890		0.2659	0.2659		2,336.1311	2,336.1311	0.7556		2,355.0199
Total	0.9138	6.8658	10.5212	0.0241	7.3000e-004	0.2890	0.2897	1.1000e-004	0.2659	0.2660		2,336.1311	2,336.1311	0.7556		2,355.0199

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.9000e-003	0.2438	0.0647	1.2200e-003	0.0354	7.2000e-004	0.0361	9.4700e-003	6.9000e-004	0.0102		129.2499	129.2499	2.7800e-003		129.3195
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0684	0.0320	0.4012	1.0800e-003	0.1277	8.5000e-004	0.1286	0.0339	7.8000e-004	0.0347		107.0900	107.0900	3.5900e-003		107.1797
Total	0.0763	0.2758	0.4659	2.3000e-003	0.1632	1.5700e-003	0.1647	0.0433	1.4700e-003	0.0448		236.3399	236.3399	6.3700e-003		236.4992

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.32 18a - Grizzly Forebay Rd - Culvert Replacement - 2029**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3000e-004	0.0000	7.3000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000			0.0000
Off-Road	0.9138	6.8658	10.5212	0.0241		0.2890	0.2890		0.2659	0.2659	0.0000	2,336.1311	2,336.1311	0.7556		2,355.0199
Total	0.9138	6.8658	10.5212	0.0241	7.3000e-004	0.2890	0.2897	1.1000e-004	0.2659	0.2660	0.0000	2,336.1311	2,336.1311	0.7556		2,355.0199

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.9000e-003	0.2438	0.0647	1.2200e-003	0.0354	7.2000e-004	0.0361	9.4700e-003	6.9000e-004	0.0102		129.2499	129.2499	2.7800e-003		129.3195
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0684	0.0320	0.4012	1.0800e-003	0.1277	8.5000e-004	0.1286	0.0339	7.8000e-004	0.0347		107.0900	107.0900	3.5900e-003		107.1797
Total	0.0763	0.2758	0.4659	2.3000e-003	0.1632	1.5700e-003	0.1647	0.0433	1.4700e-003	0.0448		236.3399	236.3399	6.3700e-003		236.4992

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.33 18b - Grizzly Forebay Rd - Unplug Culverts - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498		302.0559	302.0559	0.0977		304.4981

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.9400e-003	0.1524	0.0404	7.6000e-004	0.0221	4.5000e-004	0.0226	5.9200e-003	4.3000e-004	6.3500e-003		80.7812	80.7812	1.7400e-003		80.8247
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0274	0.0128	0.1605	4.3000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.1000e-004	0.0139		42.8360	42.8360	1.4400e-003		42.8719
Total	0.0323	0.1652	0.2009	1.1900e-003	0.0732	7.9000e-004	0.0740	0.0195	7.4000e-004	0.0202		123.6172	123.6172	3.1800e-003		123.6965

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.33 18b - Grizzly Forebay Rd - Unplug Culverts - 2029**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981
Total	0.1321	1.3351	2.2297	3.1200e-003		0.0541	0.0541		0.0498	0.0498	0.0000	302.0559	302.0559	0.0977		304.4981

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.9400e-003	0.1524	0.0404	7.6000e-004	0.0221	4.5000e-004	0.0226	5.9200e-003	4.3000e-004	6.3500e-003		80.7812	80.7812	1.7400e-003		80.8247
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0274	0.0128	0.1605	4.3000e-004	0.0511	3.4000e-004	0.0514	0.0136	3.1000e-004	0.0139		42.8360	42.8360	1.4400e-003		42.8719
Total	0.0323	0.1652	0.2009	1.1900e-003	0.0732	7.9000e-004	0.0740	0.0195	7.4000e-004	0.0202		123.6172	123.6172	3.1800e-003		123.6965

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.34 18c - Grizzly Forebay Rd - Replace Pavement - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0530	0.0000	0.0530	5.7300e-003	0.0000	5.7300e-003			0.0000			0.0000
Off-Road	2.2072	15.9899	23.0475	0.0599		0.6346	0.6346		0.5838	0.5838		5,792.330 2	5,792.330 2	1.8734		5,839.164 1
Total	2.2072	15.9899	23.0475	0.0599	0.0530	0.6346	0.6876	5.7300e-003	0.5838	0.5895		5,792.330 2	5,792.330 2	1.8734		5,839.164 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0519	1.5997	0.4243	8.0300e-003	0.2415	4.7200e-003	0.2462	0.0643	4.5200e-003	0.0689		848.2026	848.2026	0.0183		848.6589
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1642	0.0769	0.9630	2.5800e-003	0.3066	2.0300e-003	0.3086	0.0813	1.8700e-003	0.0832		257.0159	257.0159	8.6200e-003		257.2313
Total	0.2161	1.6766	1.3872	0.0106	0.5480	6.7500e-003	0.5548	0.1456	6.3900e-003	0.1520		1,105.218 5	1,105.218 5	0.0269		1,105.890 2

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.34 18c - Grizzly Forebay Rd - Replace Pavement - 2029**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0530	0.0000	0.0530	5.7300e-003	0.0000	5.7300e-003			0.0000			0.0000
Off-Road	2.2072	15.9899	23.0475	0.0599		0.6346	0.6346		0.5838	0.5838	0.0000	5,792.330 2	5,792.330 2	1.8734		5,839.164 1
Total	2.2072	15.9899	23.0475	0.0599	0.0530	0.6346	0.6876	5.7300e-003	0.5838	0.5895	0.0000	5,792.330 2	5,792.330 2	1.8734		5,839.164 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0519	1.5997	0.4243	8.0300e-003	0.2415	4.7200e-003	0.2462	0.0643	4.5200e-003	0.0689		848.2026	848.2026	0.0183		848.6589
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1642	0.0769	0.9630	2.5800e-003	0.3066	2.0300e-003	0.3086	0.0813	1.8700e-003	0.0832		257.0159	257.0159	8.6200e-003		257.2313
Total	0.2161	1.6766	1.3872	0.0106	0.5480	6.7500e-003	0.5548	0.1456	6.3900e-003	0.1520		1,105.218 5	1,105.218 5	0.0269		1,105.890 2

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.35 24d - Hutchins Group Campground - Replace Pavement - 2029**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1326	0.0000	0.1326	0.0143	0.0000	0.0143			0.0000			0.0000
Off-Road	2.2072	15.9899	23.0475	0.0599		0.6346	0.6346		0.5838	0.5838		5,792.330 2	5,792.330 2	1.8734		5,839.164 1
Total	2.2072	15.9899	23.0475	0.0599	0.1326	0.6346	0.7671	0.0143	0.5838	0.5981		5,792.330 2	5,792.330 2	1.8734		5,839.164 1

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0691	2.1329	0.5657	0.0107	0.3220	6.3000e-003	0.3283	0.0858	6.0300e-003	0.0918		1,130.936 7	1,130.936 7	0.0243		1,131.545 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1642	0.0769	0.9630	2.5800e-003	0.3066	2.0300e-003	0.3086	0.0813	1.8700e-003	0.0832		257.0159	257.0159	8.6200e-003		257.2313
Total	0.2334	2.2098	1.5287	0.0133	0.6285	8.3300e-003	0.6369	0.1671	7.9000e-003	0.1750		1,387.952 7	1,387.952 7	0.0330		1,388.776 5

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.35 24d - Hutchins Group Campground - Replace Pavement - 2029**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1326	0.0000	0.1326	0.0143	0.0000	0.0143			0.0000			0.0000
Off-Road	2.2072	15.9899	23.0475	0.0599		0.6346	0.6346		0.5838	0.5838	0.0000	5,792.330 2	5,792.330 2	1.8734		5,839.164 1
Total	2.2072	15.9899	23.0475	0.0599	0.1326	0.6346	0.7671	0.0143	0.5838	0.5981	0.0000	5,792.330 2	5,792.330 2	1.8734		5,839.164 1

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0691	2.1329	0.5657	0.0107	0.3220	6.3000e-003	0.3283	0.0858	6.0300e-003	0.0918		1,130.936 7	1,130.936 7	0.0243		1,131.545 2
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1642	0.0769	0.9630	2.5800e-003	0.3066	2.0300e-003	0.3086	0.0813	1.8700e-003	0.0832		257.0159	257.0159	8.6200e-003		257.2313
Total	0.2334	2.2098	1.5287	0.0133	0.6285	8.3300e-003	0.6369	0.1671	7.9000e-003	0.1750		1,387.952 7	1,387.952 7	0.0330		1,388.776 5

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.36 22b - Grizzly Powerhouse Rd - Unplug Culverts - 2030**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190		359.7283	359.7283	0.0152		360.1081
Total	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190		359.7283	359.7283	0.0152		360.1081

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0318	0.9601	0.2639	4.9800e-003	0.1657	2.6700e-003	0.1683	0.0438	2.5600e-003	0.0464		525.5550	525.5550	0.0111		525.8326
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0251	0.0115	0.1478	4.2000e-004	0.0511	3.1000e-004	0.0514	0.0136	2.9000e-004	0.0138		41.6878	41.6878	1.2800e-003		41.7198
Total	0.0570	0.9715	0.4117	5.4000e-003	0.2168	2.9800e-003	0.2197	0.0574	2.8500e-003	0.0602		567.2428	567.2428	0.0124		567.5525

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.36 22b - Grizzly Powerhouse Rd - Unplug Culverts - 2030**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	359.7283	359.7283	0.0152		360.1081
Total	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	359.7283	359.7283	0.0152		360.1081

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0318	0.9601	0.2639	4.9800e-003	0.1657	2.6700e-003	0.1683	0.0438	2.5600e-003	0.0464		525.5550	525.5550	0.0111		525.8326
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0251	0.0115	0.1478	4.2000e-004	0.0511	3.1000e-004	0.0514	0.0136	2.9000e-004	0.0138		41.6878	41.6878	1.2800e-003		41.7198
Total	0.0570	0.9715	0.4117	5.4000e-003	0.2168	2.9800e-003	0.2197	0.0574	2.8500e-003	0.0602		567.2428	567.2428	0.0124		567.5525

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.37 22a - Grizzly Powerhouse Rd - Culvert Replacement - 2031**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7000e-004	0.0000	5.7000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000			0.0000
Off-Road	1.1400	3.8634	10.8309	0.0268		0.1245	0.1245		0.1245	0.1245		2,797.3410	2,797.3410	0.1010		2,799.8655
Total	1.1400	3.8634	10.8309	0.0268	5.7000e-004	0.1245	0.1251	9.0000e-005	0.1245	0.1246		2,797.3410	2,797.3410	0.1010		2,799.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.9100e-003	0.1745	0.0495	9.3000e-004	0.0290	4.7000e-004	0.0294	7.7000e-003	4.5000e-004	8.1500e-003		98.1432	98.1432	2.0400e-003		98.1943
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0566	0.0253	0.3384	1.0200e-003	0.1277	7.3000e-004	0.1285	0.0339	6.7000e-004	0.0345		101.6380	101.6380	2.8300e-003		101.7088
Total	0.0626	0.1998	0.3879	1.9500e-003	0.1567	1.2000e-003	0.1579	0.0416	1.1200e-003	0.0427		199.7813	199.7813	4.8700e-003		199.9031

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.37 22a - Grizzly Powerhouse Rd - Culvert Replacement - 2031**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7000e-004	0.0000	5.7000e-004	9.0000e-005	0.0000	9.0000e-005			0.0000			0.0000
Off-Road	1.1400	3.8634	10.8309	0.0268		0.1245	0.1245		0.1245	0.1245	0.0000	2,797.3410	2,797.3410	0.1010		2,799.8655
Total	1.1400	3.8634	10.8309	0.0268	5.7000e-004	0.1245	0.1251	9.0000e-005	0.1245	0.1246	0.0000	2,797.3410	2,797.3410	0.1010		2,799.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.9100e-003	0.1745	0.0495	9.3000e-004	0.0290	4.7000e-004	0.0294	7.7000e-003	4.5000e-004	8.1500e-003		98.1432	98.1432	2.0400e-003		98.1943
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0566	0.0253	0.3384	1.0200e-003	0.1277	7.3000e-004	0.1285	0.0339	6.7000e-004	0.0345		101.6380	101.6380	2.8300e-003		101.7088
Total	0.0626	0.1998	0.3879	1.9500e-003	0.1567	1.2000e-003	0.1579	0.0416	1.1200e-003	0.0427		199.7813	199.7813	4.8700e-003		199.9031

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.38 22c - Grizzly Powerhouse Rd - Culvert Outfall - 2031**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190		359.7283	359.7283	0.0152		360.1081
Total	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190		359.7283	359.7283	0.0152		360.1081

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0135	0.3988	0.1131	2.1200e-003	0.0512	1.0700e-003	0.0522	0.0139	1.0200e-003	0.0149		224.3274	224.3274	4.6700e-003		224.4442
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0227	0.0101	0.1354	4.1000e-004	0.0511	2.9000e-004	0.0514	0.0136	2.7000e-004	0.0138		40.6552	40.6552	1.1300e-003		40.6835
Total	0.0362	0.4089	0.2485	2.5300e-003	0.1023	1.3600e-003	0.1036	0.0275	1.2900e-003	0.0288		264.9826	264.9826	5.8000e-003		265.1277

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.38 22c - Grizzly Powerhouse Rd - Culvert Outfall - 2031**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	359.7283	359.7283	0.0152		360.1081
Total	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	359.7283	359.7283	0.0152		360.1081

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0135	0.3988	0.1131	2.1200e-003	0.0512	1.0700e-003	0.0522	0.0139	1.0200e-003	0.0149		224.3274	224.3274	4.6700e-003		224.4442
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0227	0.0101	0.1354	4.1000e-004	0.0511	2.9000e-004	0.0514	0.0136	2.7000e-004	0.0138		40.6552	40.6552	1.1300e-003		40.6835
Total	0.0362	0.4089	0.2485	2.5300e-003	0.1023	1.3600e-003	0.1036	0.0275	1.2900e-003	0.0288		264.9826	264.9826	5.8000e-003		265.1277

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.39 21a - Grizzly Portal Rd - Culvert Replacement - 2033**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9000e-004	0.0000	4.9000e-004	7.0000e-005	0.0000	7.0000e-005			0.0000			0.0000
Off-Road	1.1400	3.8634	10.8309	0.0268		0.1245	0.1245		0.1245	0.1245		2,797.3410	2,797.3410	0.1010		2,799.8655
Total	1.1400	3.8634	10.8309	0.0268	4.9000e-004	0.1245	0.1250	7.0000e-005	0.1245	0.1246		2,797.3410	2,797.3410	0.1010		2,799.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.1400e-003	0.1460	0.0437	8.2000e-004	0.0251	3.6000e-004	0.0255	6.6900e-003	3.4000e-004	7.0300e-003		86.2495	86.2495	1.7500e-003		86.2932
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0466	0.0200	0.2885	9.8000e-004	0.1277	6.3000e-004	0.1284	0.0339	5.8000e-004	0.0345		97.3217	97.3217	2.2400e-003		97.3777
Total	0.0517	0.1660	0.3322	1.8000e-003	0.1529	9.9000e-004	0.1539	0.0406	9.2000e-004	0.0415		183.5712	183.5712	3.9900e-003		183.6709

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.39 21a - Grizzly Portal Rd - Culvert Replacement - 2033**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9000e-004	0.0000	4.9000e-004	7.0000e-005	0.0000	7.0000e-005			0.0000			0.0000
Off-Road	1.1400	3.8634	10.8309	0.0268		0.1245	0.1245		0.1245	0.1245	0.0000	2,797.3410	2,797.3410	0.1010		2,799.8655
Total	1.1400	3.8634	10.8309	0.0268	4.9000e-004	0.1245	0.1250	7.0000e-005	0.1245	0.1246	0.0000	2,797.3410	2,797.3410	0.1010		2,799.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.1400e-003	0.1460	0.0437	8.2000e-004	0.0251	3.6000e-004	0.0255	6.6900e-003	3.4000e-004	7.0300e-003		86.2495	86.2495	1.7500e-003		86.2932
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0466	0.0200	0.2885	9.8000e-004	0.1277	6.3000e-004	0.1284	0.0339	5.8000e-004	0.0345		97.3217	97.3217	2.2400e-003		97.3777
Total	0.0517	0.1660	0.3322	1.8000e-003	0.1529	9.9000e-004	0.1539	0.0406	9.2000e-004	0.0415		183.5712	183.5712	3.9900e-003		183.6709

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.40 21b - Grizzly Portal Rd - Unplug Culverts - 2033**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190		359.7283	359.7283	0.0152		360.1081
Total	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190		359.7283	359.7283	0.0152		360.1081

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0133	0.3772	0.1128	2.1100e-003	0.0313	9.2000e-004	0.0322	9.0300e-003	8.8000e-004	9.9200e-003		222.8113	222.8113	4.5100e-003		222.9242
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0186	8.0100e-003	0.1154	3.9000e-004	0.0511	2.5000e-004	0.0513	0.0136	2.3000e-004	0.0138		38.9287	38.9287	9.0000e-004		38.9511
Total	0.0319	0.3852	0.2282	2.5000e-003	0.0824	1.1700e-003	0.0836	0.0226	1.1100e-003	0.0237		261.7400	261.7400	5.4100e-003		261.8753

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.40 21b - Grizzly Portal Rd - Unplug Culverts - 2033**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	359.7283	359.7283	0.0152		360.1081
Total	0.1722	1.0280	2.3452	3.8000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	359.7283	359.7283	0.0152		360.1081

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0133	0.3772	0.1128	2.1100e-003	0.0313	9.2000e-004	0.0322	9.0300e-003	8.8000e-004	9.9200e-003		222.8113	222.8113	4.5100e-003		222.9242
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0186	8.0100e-003	0.1154	3.9000e-004	0.0511	2.5000e-004	0.0513	0.0136	2.3000e-004	0.0138		38.9287	38.9287	9.0000e-004		38.9511
Total	0.0319	0.3852	0.2282	2.5000e-003	0.0824	1.1700e-003	0.0836	0.0226	1.1100e-003	0.0237		261.7400	261.7400	5.4100e-003		261.8753

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.41 20 - Grizzly Powerhouse Intake Rd - Culvert Replacement - 2034**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8000e-004	0.0000	4.8000e-004	7.0000e-005	0.0000	7.0000e-005			0.0000			0.0000
Off-Road	1.1400	3.8634	10.8309	0.0268		0.1245	0.1245		0.1245	0.1245		2,797.3410	2,797.3410	0.1010		2,799.8655
Total	1.1400	3.8634	10.8309	0.0268	4.8000e-004	0.1245	0.1250	7.0000e-005	0.1245	0.1246		2,797.3410	2,797.3410	0.1010		2,799.8655

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0200e-003	0.1403	0.0429	8.0000e-004	0.0248	3.3000e-004	0.0252	6.6100e-003	3.2000e-004	6.9300e-003		84.6107	84.6107	1.7000e-003		84.6531
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0426	0.0180	0.2667	9.6000e-004	0.1277	5.8000e-004	0.1283	0.0339	5.4000e-004	0.0344		95.5339	95.5339	1.9900e-003		95.5835
Total	0.0477	0.1583	0.3096	1.7600e-003	0.1526	9.1000e-004	0.1535	0.0405	8.6000e-004	0.0413		180.1446	180.1446	3.6900e-003		180.2367

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.41 20 - Grizzly Powerhouse Intake Rd - Culvert Replacement - 2034**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8000e-004	0.0000	4.8000e-004	7.0000e-005	0.0000	7.0000e-005			0.0000			0.0000
Off-Road	1.1400	3.8634	10.8309	0.0268		0.1245	0.1245		0.1245	0.1245	0.0000	2,797.3410	2,797.3410	0.1010		2,799.8655
Total	1.1400	3.8634	10.8309	0.0268	4.8000e-004	0.1245	0.1250	7.0000e-005	0.1245	0.1246	0.0000	2,797.3410	2,797.3410	0.1010		2,799.8655

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0200e-003	0.1403	0.0429	8.0000e-004	0.0248	3.3000e-004	0.0252	6.6100e-003	3.2000e-004	6.9300e-003		84.6107	84.6107	1.7000e-003		84.6531
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0426	0.0180	0.2667	9.6000e-004	0.1277	5.8000e-004	0.1283	0.0339	5.4000e-004	0.0344		95.5339	95.5339	1.9900e-003		95.5835
Total	0.0477	0.1583	0.3096	1.7600e-003	0.1526	9.1000e-004	0.1535	0.0405	8.6000e-004	0.0413		180.1446	180.1446	3.6900e-003		180.2367

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.42 19a - Grizzly Communication Rds - Culvert Replacement - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3000e-004	0.0000	7.3000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000			0.0000
Off-Road	1.0707	3.1716	10.8280	0.0268		0.0823	0.0823		0.0823	0.0823		2,797.3410	2,797.3410	0.0934		2,799.6757
Total	1.0707	3.1716	10.8280	0.0268	7.3000e-004	0.0823	0.0831	1.1000e-004	0.0823	0.0824		2,797.3410	2,797.3410	0.0934		2,799.6757

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4800e-003	0.2058	0.0642	1.2000e-003	0.0354	4.7000e-004	0.0359	9.4600e-003	4.5000e-004	9.9100e-003		126.5657	126.5657	2.5000e-003		126.6283
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0390	0.0164	0.2477	9.4000e-004	0.1277	5.4000e-004	0.1283	0.0339	5.0000e-004	0.0344		93.9705	93.9705	1.7600e-003		94.0146
Total	0.0465	0.2223	0.3118	2.1400e-003	0.1631	1.0100e-003	0.1641	0.0433	9.5000e-004	0.0443		220.5362	220.5362	4.2600e-003		220.6429

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.42 19a - Grizzly Communication Rds - Culvert Replacement - 2035**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.3000e-004	0.0000	7.3000e-004	1.1000e-004	0.0000	1.1000e-004			0.0000			0.0000
Off-Road	1.0707	3.1716	10.8280	0.0268		0.0823	0.0823		0.0823	0.0823	0.0000	2,797.3410	2,797.3410	0.0934		2,799.6757
Total	1.0707	3.1716	10.8280	0.0268	7.3000e-004	0.0823	0.0831	1.1000e-004	0.0823	0.0824	0.0000	2,797.3410	2,797.3410	0.0934		2,799.6757

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4800e-003	0.2058	0.0642	1.2000e-003	0.0354	4.7000e-004	0.0359	9.4600e-003	4.5000e-004	9.9100e-003		126.5657	126.5657	2.5000e-003		126.6283
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0390	0.0164	0.2477	9.4000e-004	0.1277	5.4000e-004	0.1283	0.0339	5.0000e-004	0.0344		93.9705	93.9705	1.7600e-003		94.0146
Total	0.0465	0.2223	0.3118	2.1400e-003	0.1631	1.0100e-003	0.1641	0.0433	9.5000e-004	0.0443		220.5362	220.5362	4.2600e-003		220.6429

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.43 19b - Grizzly Communication Rds - Unplug Culverts - 2035**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1633	0.9628	2.3440	3.8000e-003		0.0127	0.0127		0.0127	0.0127		359.7283	359.7283	0.0146		360.0923
Total	0.1633	0.9628	2.3440	3.8000e-003		0.0127	0.0127		0.0127	0.0127		359.7283	359.7283	0.0146		360.0923

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.5400e-003	0.1801	0.0562	1.0500e-003	0.0454	4.1000e-004	0.0458	0.0118	3.9000e-004	0.0122		110.7450	110.7450	2.1900e-003		110.7998
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0156	6.5700e-003	0.0991	3.8000e-004	0.0511	2.2000e-004	0.0513	0.0136	2.0000e-004	0.0138		37.5882	37.5882	7.1000e-004		37.6058
Total	0.0221	0.1867	0.1552	1.4300e-003	0.0965	6.3000e-004	0.0971	0.0254	5.9000e-004	0.0260		148.3332	148.3332	2.9000e-003		148.4056

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.43 19b - Grizzly Communication Rds - Unplug Culverts - 2035**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1633	0.9628	2.3440	3.8000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	359.7283	359.7283	0.0146		360.0923
Total	0.1633	0.9628	2.3440	3.8000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	359.7283	359.7283	0.0146		360.0923

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.5400e-003	0.1801	0.0562	1.0500e-003	0.0454	4.1000e-004	0.0458	0.0118	3.9000e-004	0.0122		110.7450	110.7450	2.1900e-003		110.7998
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0156	6.5700e-003	0.0991	3.8000e-004	0.0511	2.2000e-004	0.0513	0.0136	2.0000e-004	0.0138		37.5882	37.5882	7.1000e-004		37.6058
Total	0.0221	0.1867	0.1552	1.4300e-003	0.0965	6.3000e-004	0.0971	0.0254	5.9000e-004	0.0260		148.3332	148.3332	2.9000e-003		148.4056

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.44 23a - Haskins Valley Campground - Replace Pavement - 2040**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1136	0.0000	0.1136	0.0123	0.0000	0.0123			0.0000			0.0000
Off-Road	3.1144	7.3718	26.3718	0.0786		0.2011	0.2011		0.2011	0.2011		8,467.7980	8,467.7980	0.2742		8,474.6540
Total	3.1144	7.3718	26.3718	0.0786	0.1136	0.2011	0.3147	0.0123	0.2011	0.2133		8,467.7980	8,467.7980	0.2742		8,474.6540

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1560	4.0975	1.3410	0.0252	0.7812	8.8400e-003	0.7900	0.2081	8.4500e-003	0.2165		2,663.0267	2,663.0267	0.0510		2,664.3009
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0698	0.0308	0.5096	2.3200e-003	0.3321	1.0800e-003	0.3332	0.0881	9.9000e-004	0.0891		231.1952	231.1952	3.0400e-003		231.2714
Total	0.2258	4.1282	1.8506	0.0276	1.1133	9.9200e-003	1.1232	0.2961	9.4400e-003	0.3056		2,894.2219	2,894.2219	0.0540		2,895.5722

Bucks Creek Hydroelectric Project - Plumas County, Summer

3.44 23a - Haskins Valley Campground - Replace Pavement - 2040**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1136	0.0000	0.1136	0.0123	0.0000	0.0123			0.0000			0.0000
Off-Road	3.1144	7.3718	26.3718	0.0786		0.2011	0.2011		0.2011	0.2011	0.0000	8,467.798 0	8,467.798 0	0.2742		8,474.654 0
Total	3.1144	7.3718	26.3718	0.0786	0.1136	0.2011	0.3147	0.0123	0.2011	0.2133	0.0000	8,467.798 0	8,467.798 0	0.2742		8,474.654 0

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1560	4.0975	1.3410	0.0252	0.7812	8.8400e-003	0.7900	0.2081	8.4500e-003	0.2165		2,663.026 7	2,663.026 7	0.0510		2,664.300 9
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0698	0.0308	0.5096	2.3200e-003	0.3321	1.0800e-003	0.3332	0.0881	9.9000e-004	0.0891		231.1952	231.1952	3.0400e-003		231.2714
Total	0.2258	4.1282	1.8506	0.0276	1.1133	9.9200e-003	1.1232	0.2961	9.4400e-003	0.3056		2,894.221 9	2,894.221 9	0.0540		2,895.572 2

4.0 Operational Detail - Mobile

Bucks Creek Hydroelectric Project - Plumas County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Recreational	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
User Defined Recreational	0.451390	0.047356	0.228647	0.160524	0.049085	0.008369	0.015884	0.026778	0.001925	0.001827	0.005819	0.000749	0.001649

Bucks Creek Hydroelectric Project - Plumas County, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Bucks Creek Hydroelectric Project - Plumas County, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Bucks Creek Hydroelectric Project - Plumas County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Bucks Creek Hydroelectric Project - Plumas County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

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

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Bucks Creek Hydroelectric Project - Plumas County, Summer

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Bucks Creek Hydroelectric Project
Work Boat Emission Factor Derivation and Emissions

Assumptions

Work Boat Engine	35 bhp
Grizzly Forebay Campground - Install Food Lockers - Daily usage	2 hours/day
Grizzly Forebay Campground - Install Food Lockers - Work Days	10 days
Grizzly Forebay Campground - Install Food Lockers - Total usage	20 hours
Buck's Lake Boat In Campground - Construct New Sites - Daily usage	2 hours
Buck's Lake Boat In Campground - Construct New Sites - Work Days	16 days
Buck's Lake Boat In Campground - Construct New Sites - Total usage	32 hours

Emission Equation:

$E = EF_0 \times F \times (1 + D \times A/UL) \times HP \times LF \times Hr$

Where:

E is the amount of emissions of a pollutant emitted during one period.
EF₀ is the model year, horsepower and engine use (propulsion or auxiliary) specific zero hour emission factor (when engine is new).

F is the fuel correction factor which accounts for emission reduction benefits from burning cleaner fuel.
D is the horsepower and pollutant specific engine deterioration factor, which is the percentage increase of emission factors at the end of the useful life of the engine.
A is the age of the engine when emissions are estimated.
UL is the vessel type and engine use specific engine useful life.
HP is the rated horsepower of the engine.
LF is the vessel type and engine use specific engine load factor.
Hr is the number of operating hours of the engine.

Constants:

F:	NOx =	0.948		
	PM =	0.852		
D:	NOx =	0.21	HC =	0.44
	PM =	0.67	CO =	0.25
A:	5 yrs			
UL:	17 yrs			
LF:	0.45			

Emission Factors (g/hp-hr)								
	ROG	NO _x	PM	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	N ₂ O
Work Boat Engine	1.8	5.32	0.22	0.22	0.2134	545.6	0.023	0.02

Activity	Pollutant Emissions (lbs)							
	ROG	NO _x	PM	PM ₁₀	PM _{2.5}	CO ₂	CH ₄	CO ₂ e
Grizzly Forebay Campground - Install Food Lockers								
Hourly Boat Emissions	0.07	0.19	0.01	0.01	0.01	24.47	0.00	25
Maximum Daily Boat Emissions	0.14	0.37	0.02	0.02	0.02	48.93	0.00	50
Total Boat Emissions	1.41	3.71	0.16	0.16	0.15	489.31	0.02	495
Buck's Lake Boat In Campground - Construct New Sites								
Hourly Boat Emissions	0.07	0.19	0.01	0.01	0.01	24.47	0.00	25
Maximum Daily Boat Emissions	0.14	0.37	0.02	0.02	0.02	48.93	0.00	50
Total Boat Emissions	2.25	5.94	0.25	0.25	0.24	782.89	0.03	792

Notes:

ROG, NO_x, and PM emissions calculated using the method outlined in Emissions Estimation Methodology for Commercial Harbor Craft Operating in California, CARB, revised 2012.
PM emissions are estimated to be equivalent to PM₁₀ emissions. The PM_{2.5} fraction of the PM₁₀ emissions is estimated to be 97% for Work Boats (ICF Consulting, Current Methodologies and Best Practices in Preparing Port Emission Inventories, Final Report, Prepared for U.S. Environmental Protection Agency Sector Strategies Program, April 2006.)
CO₂ emission factor from Appendix G - Assumptions for Estimating Greenhouse Gas Emissions from Commercial Harbor Craft Operating in California.
N₂O and CH₄ emission factors from GHG emission factors in the 2011 Port of Long Beach Air Emission Inventory, Appendix B.
Global Warming Potentials (GWPs) obtained from the Fourth Assessment Report (AR4) of the Intergovernmental Panel on Climate Change (IPCC). GWPs used here do not include climate-carbon feedbacks.

HELICOPTER (SIKORSKY BLACKHAWK) EMISSION CALCULATIONS

Helicopter Model	Blackhawk
Engine Type	T700-GE-700
Fuel S Content by Weight	0.054 %
Fuel Burn Rate (flight)	166 gal/hr
Fuel Burn Rate (LTO)	24 gal/LTO
Jet Fuel Density	6.74 lbs/gal
CO ₂ Emission Factor	9.57 kg/gal fuel
CH ₄ Emission Factor	0.00027 kg/gal fuel
N ₂ O Emission Factor	0.00031 kg/gal fuel
CH ₄ Global Warming Potential	25
N ₂ O Global Warming Potential	298

Activity	Combustion Emission Factors					Fugitive Emission Factors		GHG Emission Factors		
	HC	CO	NOx	SOx	PM	PM10	PM2.5	CO ₂	N ₂ O	CH ₄
Flight (lbs/hr)	2.44	2.90	11.95	0.60	0.03	-	-	3488.34	0.11	0.10
LTO (lbs)	1.26	1.59	1.27	0.09	0.04	3.3	0.33	501.67	0.02	0.01

Activity	Quantity	Combustion Emissions (lbs/day)					Fugitive Emissions (lbs/day)		GHG Emissions (lbs/day)			
		HC	CO	NOx	SOx	PM	PM10	PM2.5	CO ₂	N ₂ O	CH ₄	CO2e
Bucks Lake Boat-In												
Flight	3.325 hrs/day	8.12	9.66	39.72	2.01	0.11	-	-	10465.03	0.34	0.30	10573.43
LTO	3 LTOs/day	3.77	4.78	3.80	0.26	0.11	9.90	0.99	1505.02	0.05	0.04	1520.61
Total (per day)		11.89	14.44	43.52	2.27	0.22	9.90	0.99	11970.04	0.39	0.34	12094.03

Activity	Working Days	Combustion Emissions (tons)					Fugitive Emissions (tons)		GHG Emissions (metric tons)			
		HC	CO	NOx	SOx	PM	PM10	PM2.5	CO ₂	N ₂ O	CH ₄	CO2e
Bucks Lake Boat-In	4	0.02	0.03	0.09	0.00	0.00	0.02	0.00	21.76	0.00	0.00	24.19
Total		0.02	0.03	0.09	0.00	0.00	0.02	0.00	21.76	0.00	0.00	24.19

HELICOPTER (SIKORSKY BLACKHAWK) EMISSION CALCULATIONS

Notes:

Emission factors and fuel burn rates obtained from the FOCA Guidance on Determination of Helicopter Emissions, Edition 2, December 2015.

LTO = Landing and take-off cycle.

Each day of helicopter operations was assumed to contain 3 LTOs, each 13.5 minutes long. The helicopter was assumed to be in flight during the remainder of the day's operations.

Jet Fuel assumed to contain an average 0.054% wt. sulfur per the FAA's Aviation Emissions, Impacts & Mitigation: a Primer, dated January 2015.

Fugitive dust emission factor source: Dr. J. A. Gillies et. al. December 31, 2007. Particulate Matter Emissions for Dust from Unique Military Activities . Measurements indicated approximately 0.5 kg of PM10 during takeoff and 1 kg during landing. Measurements were conducted in dry, unpaved, desert in Arizona. The model used in testing was a UH-1H Huey, generally similar to the helicopter above. The 0.5 kg takeoff and 1 kg landing emission factor is conservatively assumed for all helicopters. The landing and takeoff surface is assumed to be watered, reducing fugitive dust emissions 55%.

PM2.5/PM10 Factor: Western Governors' Association. September 7, 2006. WRAP Fugitive Dust Handbook. The emission factor for PM2.5 for unpaved roads is 0.1 x PM10 emissions.

Greenhouse gas emission factors obtained from California Climate Action Registry General Reporting Protocol, Version 3.1, January 2009.

Global warming potentials (GWP) obtained from the 2007 IPCC Fourth Assessment Report (SAR) and are consistent with 2014 CARB's Scoping Plan Update.

Density of fuel from ExxonMobil Aviation World Jet Fuel Specifications, 2005 Edition.

$775\text{-}840 \text{ kg/m}^3 = 6.47 - 7.01 \text{ lb/gallon}$

Average Density = 6.74 lb/gallon

Appendix C

City of Santa Clara record of AB 52 Tribal Consultation

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Local Government Tribal Consultation List Request

Native American Heritage Commission

1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Type of List Requested

☒ CEQA Tribal Consultation List (AB 52) – *Per Public Resources Code § 21080.3.1, subs. (b), (d), (e) and 21080.3.2*

☐ General Plan (SB 18) - *Per Government Code § 65352.3.*

Local Action Type:

☐ General Plan ☐ General Plan Element ☐ General Plan Amendment

☐ Specific Plan ☐ Specific Plan Amendment ☐ Pre-planning Outreach Activity

Required Information

Project Title: Bucks Creek Hydroelectric Project

Local Government/Lead Agency: City of Santa Clara

Contact Person: Patricia Sussman, Planner, EN2 Resources, Inc.

Street Address: 1024 Simon Drive, Suite H.

City: Placerville Zip: 95667

Phone: 530-622-8740

Fax: _____

Email: patriciasussman@en2resources.com

Specific Area Subject to Proposed Action

County: Plumas City/Community:

Project Description: See attached

Additional Request

☐ Sacred Lands File Search - *Required Information:*

USGS Quadrangle Name(s): _____

Township: _____ Range: _____ Section(s): _____

Project Description and Location

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. See Figure 1-1 for the project location (below). The 84.8-megawatt project consists of Bucks Creek and Grizzly Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115- kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license. There are no Government listed hazardous waste or materials sites within the project boundary.

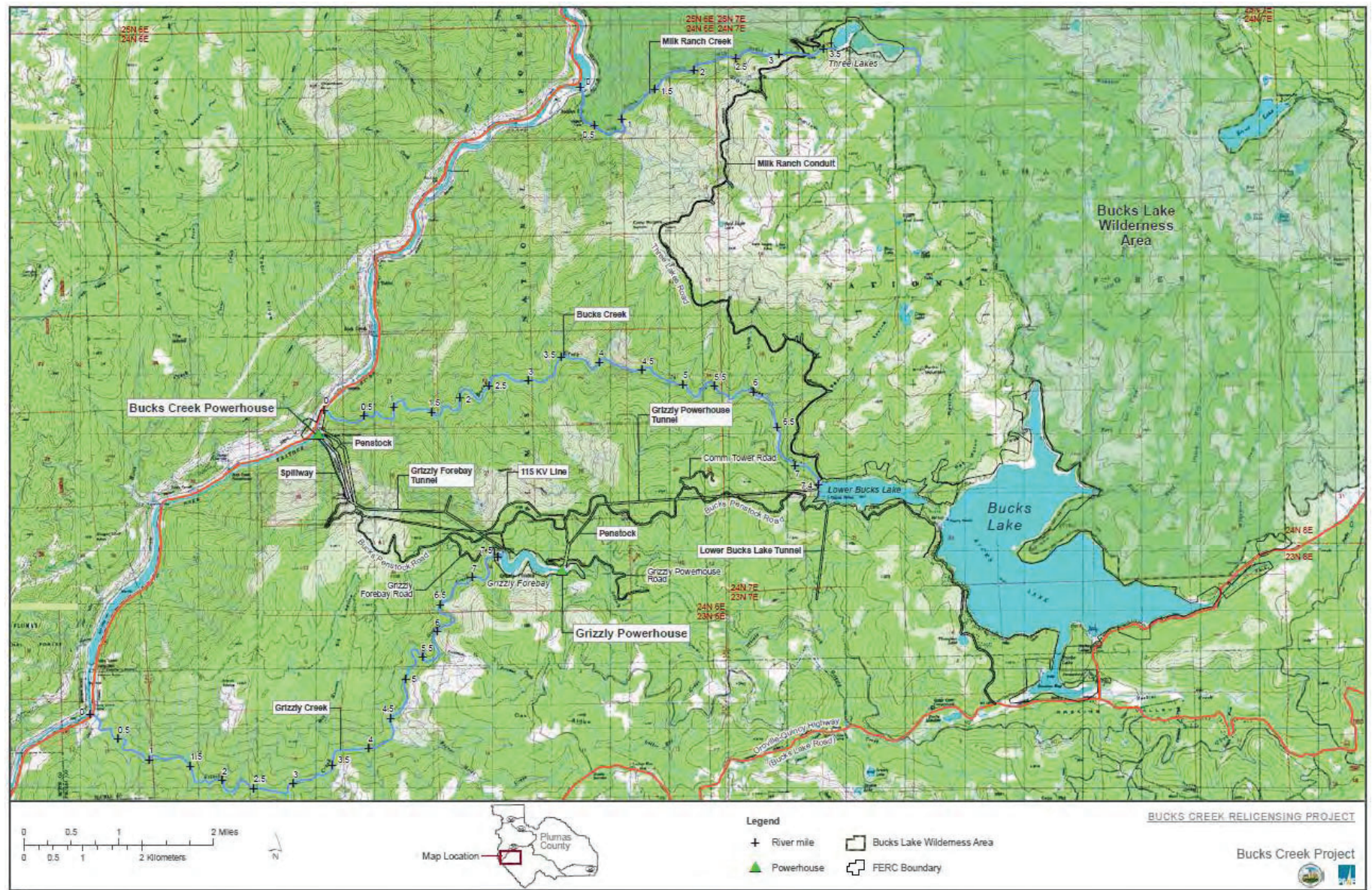


Figure 1-1. Location of Bucks Creek Hydroelectric Project (Source: FERC, 2014a).

NATIVE AMERICAN HERITAGE COMMISSION

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



July 12, 2019

John Davidson
City of Santa Clara

VIA Email to: jdavidson@santaclaraca.gov
Cc: patriciasussman@en2resources.com

RE: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, **Bucks Creek Hydroelectric Project**, City of Santa Clara; Plumas County, California.

Dear Mr. Davidson:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:
 - A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;
 - Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
 - Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and
 - If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.
2. The results of any archaeological inventory survey that was conducted, including:
 - Any report that may contain site forms, site significance, and suggested mitigation measures. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.
3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission. The request form can be found at <http://nahc.ca.gov/wpcontent/uploads/2015/08/Local-Govenment-Tribal-Consultation-List-Request-Form-update.pdf>.
4. Any ethnographic studies conducted for any area including all or part of the APE; and
5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: gayle.totton@nahc.ca.gov.

Sincerely,



Gayle Totton, B.S., M.A., Ph D.

Associate Governmental Program Analyst

Attachment

**Native American Heritage Commission
Tribal Consultation List
Plumas County
7/16/2019**

***Estom Yumeka Maidu Tribe of
the Enterprise Rancheria***

Glenda Nelson, Chairperson
2133 Monte Vista Avenue Maidu
Oroville, CA, 95966
Phone: (530) 532 - 9214
Fax: (530) 532-1768
info@enterpriserancheria.org

***Greenville Rancheria of Maidu
Indians***

Kyle Self, Chairperson
P.O. Box 279 Maidu
Greenville, CA, 95947
Phone: (530) 284 - 7990
Fax: (530) 284-6612
kself@greenvillerrancheria.com

KonKow Valley Band of Maidu

Jessica Lopez, Chairperson
2086 N. Villa St. KonKow
Palermo, CA, 95968 Maidu
Phone: (707) 357 - 2415
jessica@konkowmaidu.org

Mechoopda Indian Tribe

Dennis Ramirez, Chairperson
125 Mission Ranch Blvd KonKow
Chico, CA, 95926 Maidu
Phone: (530) 899 - 8922
Fax: (530) 899-8517
dramirez@mechoopda-nsn.gov

***Mooretown Rancheria of Maidu
Indians***

Benjamin Clark, Chairperson
#1 Alverda Drive KonKow
Oroville, CA, 95966 Maidu
Phone: (530) 533 - 3625
Fax: (530) 533-3680
frontdesk@mooretown.org

Susanville Indian Rancheria

Brandon Guitierrez, Chairperson
745 Joaquin Street Maidu
Susanville, CA, 96130 Paiute
Phone: (530) 257 - 6264 Pit River
Fax: (530) 257-7986 Washoe
sirtribalchair@citlink.net

Tsi Akim Maidu

Grayson Coney, Cultural Director
P.O. Box 510 Maidu
Browns Valley, CA, 95918
Phone: (530) 383 - 7234
tsi-akim-maidu@att.net

Tsi Akim Maidu

Don Ryberg, Chairperson
P.O. Box 510 Maidu
Browns Valley, CA, 95918
Phone: (530) 383 - 7234
tsi-akim-maidu@att.net

***Washoe Tribe of Nevada and
California***

Darrel Cruz, Cultural Resources
Department
919 Highway 395 North Washoe
Gardnerville, NV, 89410
Phone: (775) 265 - 8600
darrel.cruz@washoetribe.us

***Washoe Tribe of Nevada and
California***

Serrell Smokey, Chairperson
919 Highway 395 North Washoe
Gardnerville, NV, 89410
Phone: (775) 265 - 8600
serrell.smokey@washoetribe.us

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and section 5097.98 of the Public Resources Code.

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed Bucks Creek Hydroelectric (FERC Project No. 619) Project, Plumas County.

H.11 Indian Tribe Names and Mailing Addresses

The names and mailing addresses of local Indian Tribes who would likely be interested in this Project relicensing are included in the Initial Statement of this License Application.

The following tribal contacts were provided to PG&E by California Native American Heritage Commission or were otherwise believed by the Licensees to have a potential interest in the Project:

Concow Maidu Tribe - Mooretown Rancheria
Mr. Gary Archuleta, Chairperson
One Alverda Drive
Oroville, CA 95966-9379

Tyme Maidu Tribe - Berry Creek Rancheria
Mr. Jim Edwards, Chairperson
Five Tyme Way
Oroville, CA 95966-9115

Greenville Rancheria
Mr. Kyle Self, Chairperson
P. O. Box 279
Greenville, CA 95947-0279

Estom Yumeka Tribe - Enterprise Rancheria
Ms. Glenda Nelson, Chairperson
2133 Monte Vista Avenue
Oroville, CA 95966-6968

Mechoopda Indian Tribe - Chico Rancheria
Mr. Dennis Ramirez, Chairperson
125 Mission Ranch Boulevard
Chico, CA 95926-2175

Maidu Summit Consortium
Mr. Benjamin Cunningham, Chairperson
P.O. Box 577
Greenville, CA 95947-1122

May 2018

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Exhibit H

Bucks Creek Hydroelectric Project, FERC Project No. 619
©2018, Pacific Gas and Electric Company
and the City of Santa Clara

**Bucks Creek Hydroelectric Project, FERC Project No. 619
Supplement to the Final License Application**



Susanville Indian Rancheria
Mr. Stacy Dixon, Chairperson
745 Joaquin Street, Drawer U
Susanville, CA 96130-3628

Washoe Tribe of Nevada and California
Ms. Wanda Batchelor, Chairperson
919 U.S. 395 South
Gardnerville, NV 89410-8968



*Giving You the
Power to Change the World*

DATE: July 31, 2019

TO: Glenda Nelson, Chairperson
Estom Yumeka Maidu Tribe of the Enterprise Rancheria
2133 Monte Vista Avenue
Oroville, CA, 95966
info@enterpriserancheria.org
(530) 532 – 9214

SUBJECT: Bucks Creek Hydroelectric Relicensing Project – Consultation Request from CEQA Lead Agency,
City of Santa Clara

Dear Glenda Nelson,

This letter serves as the City of Santa Clara's (City) (operating as Silicon Valley Power or SVP) formal notification and request for tribal consultation for the proposed Bucks Creek Hydroelectric Relicensing Project (Bucks Creek Project or Project). Your contact information was provided to the City by the Native American Heritage Commission in early July of this year as a tribe that is traditionally and culturally affiliated with the geographic area of the project.

As described below, previous requests for consultation have been transmitted to many tribal groups in the Project area as far back as 2013, and certain tribal representatives have participated over the past several years in the Federal Energy Regulatory Commission's (FERC) proceedings on this Project. As CEQA Lead Agency for this Project, the City is hereby fulfilling its notification requirements in accordance with AB 52.

Background

The City and Pacific Gas and Electric Company (PG&E) are joint applicants for the Bucks Creek Project, which requires a new license from the Federal Energy Regulatory Commission (FERC). The City is also the Lead Agency under the California Environmental Quality Act (CEQA) for the Project and as such is initiating development of a supplemental CEQA analysis that will, in combination with the Environmental Impact Statement (EIS) issued by FERC, satisfy the City's CEQA requirements for the Project. With this letter, the City is following up on previous tribal consultation initiated by PG&E and FERC to ensure applicable tribes have the opportunity to provide input and comment on the Project in advance of the City's preparation of the CEQA Supplement.

According to existing Project records, the City understands that the Estom Yumeka Maidu Tribe of the Enterprise Rancheria has previously been made aware of the Project and may have participated in follow-up conversations with Project personnel working on behalf of FERC and/or PG&E. For reference, a brief summary of the proposed Project and anticipated next steps is provided below. Attached to this letter is the Notice of Intent/Notice of Availability the City issued in regards to the Project on June 25, 2019. FERC issued its Draft EIS for the Project on June 14, 2019. The Draft EIS is available for review and comment at: <http://www.siliconvalleypower.com/svp-and-community/projects>. The comment period for the DEIS closes on August 13, 2019.

Project Description and Location

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly

Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115- kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The Project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The Project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

Next Steps

The City will release its Draft CEQA Supplement following release of FERC's Final EIS for the Project. FERC's Final EIS for the Project is expected in early 2020. Subsequent to the release of the Draft CEQA Supplement, the State Water Board is expected to issue a Draft 401 Water Quality Certification. The City will make any necessary revisions to its Draft CEQA Supplement based on: (1) FERC's Final EIS and comments received on FERC's DEIS; (2) comments received on the City's Draft CEQA Supplement; (3) conditions contained in the Draft 401 Water Quality Certification; and (4) comments received on the Draft 401 Water Quality Certification. The City will then issue a Final CEQA Supplement which will be presented to the Santa Clara City Council for certification. The State Water Board will subsequently issue its Final 401 Water Quality Certification for the Bucks Creek Project.

Contact Information and Consultation Request

Please respond to this letter within 30 days of receipt if you would like to request consultation with the City of Santa Clara. Regardless of your response, the City will keep your contact information (as indicated above) in its list of potentially interested stakeholders and therefore you will receive a notice of availability (NOA) when the CEQA Supplement is available for public review. The CEQA Supplement will be circulated for at least a 45-day public review period. Additional Project information is available at: <http://www.bucksrelicensing.com/Public/>.

Please don't hesitate to contact me at any time: John Davidson, Principal Planner, phone: 408-615-2478; email: JDavidson@santacalaraca.gov.

Sincerely,



John Davidson
Principal Planner
City of Santa Clara

CC:

Alan Soneda, Sr. Relicensing Project Manager, PG&E
Patricia Sussman, Senior Planner, EN2 Resources, Inc.

Enclosure:

Notice of the City of Santa Clara's Intent to Rely on FERC's EIS in Combination with a Supplemental Analysis Prepared by the City of Santa Clara to Satisfy CEQA for Relicensing of Bucks Creek Project (FERC Project No. 619); and Notice of the Availability of FERC's Draft EIS for the Project



*Giving You the
Power to Change the World*

DATE: July 31, 2019

TO: Kyle Self, Chairperson
Greenville Rancheria of Maidu Indians
P.O. Box 279
Greenville, CA, 95947
kself@greenvillerancheria.com
(530) 284 – 7990

SUBJECT: Bucks Creek Hydroelectric Relicensing Project – Consultation Request from CEQA Lead Agency,
City of Santa Clara

Dear Kyle Self,

This letter serves as the City of Santa Clara's (City) (operating as Silicon Valley Power or SVP) formal notification and request for tribal consultation for the proposed Bucks Creek Hydroelectric Relicensing Project (Bucks Creek Project or Project). Your contact information was provided to the City by the Native American Heritage Commission in early July of this year as a tribe that is traditionally and culturally affiliated with the geographic area of the project.

As described below, previous requests for consultation have been transmitted to many tribal groups in the Project area as far back as 2013, and certain tribal representatives have participated over the past several years in the Federal Energy Regulatory Commission's (FERC) proceedings on this Project. As CEQA Lead Agency for this Project, the City is hereby fulfilling its notification requirements in accordance with AB 52.

Background

The City and Pacific Gas and Electric Company (PG&E) are joint applicants for the Bucks Creek Project, which requires a new license from the Federal Energy Regulatory Commission (FERC). The City is also the Lead Agency under the California Environmental Quality Act (CEQA) for the Project and as such is initiating development of a supplemental CEQA analysis that will, in combination with the Environmental Impact Statement (EIS) issued by FERC, satisfy the City's CEQA requirements for the Project. With this letter, the City is following up on previous tribal consultation initiated by PG&E and FERC to ensure applicable tribes have the opportunity to provide input and comment on the Project in advance of the City's preparation of the CEQA Supplement.

According to existing Project records, the City understands that the Greenville Rancheria of Maidu Indians has previously been made aware of the Project and may have participated in follow-up conversations with Project personnel working on behalf of FERC and/or PG&E. For reference, a brief summary of the proposed Project and anticipated next steps is provided below. Attached to this letter is the Notice of Intent/Notice of Availability the City issued in regards to the Project on June 25, 2019. FERC issued its Draft EIS for the Project on June 14, 2019. The Draft EIS is available for review and comment at: <http://www.siliconvalleypower.com/svp-and-community/projects>. The comment period for the DEIS closes on August 13, 2019.

Project Description and Location

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly

Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115- kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The Project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The Project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

Next Steps

The City will release its Draft CEQA Supplement following release of FERC's Final EIS for the Project. FERC's Final EIS for the Project is expected in early 2020. Subsequent to the release of the Draft CEQA Supplement, the State Water Board is expected to issue a Draft 401 Water Quality Certification. The City will make any necessary revisions to its Draft CEQA Supplement based on: (1) FERC's Final EIS and comments received on FERC's DEIS; (2) comments received on the City's Draft CEQA Supplement; (3) conditions contained in the Draft 401 Water Quality Certification; and (4) comments received on the Draft 401 Water Quality Certification. The City will then issue a Final CEQA Supplement which will be presented to the Santa Clara City Council for certification. The State Water Board will subsequently issue its Final 401 Water Quality Certification for the Bucks Creek Project.

Contact Information and Consultation Request

Please respond to this letter within 30 days of receipt if you would like to request consultation with the City of Santa Clara. Regardless of your response, the City will keep your contact information (as indicated above) in its list of potentially interested stakeholders and therefore you will receive a notice of availability (NOA) when the CEQA Supplement is available for public review. The CEQA Supplement will be circulated for at least a 45-day public review period. Additional Project information is available at: <http://www.bucksrelicensing.com/Public/>.

Please don't hesitate to contact me at any time: John Davidson, Principal Planner, phone: 408-615-2478; email: JDavidson@santacalaraca.gov.

Sincerely,



John Davidson
Principal Planner
City of Santa Clara

CC:

Alan Soneda, Sr. Relicensing Project Manager, PG&E
Patricia Sussman, Senior Planner, EN2 Resources, Inc.

Enclosure:

Notice of the City of Santa Clara's Intent to Rely on FERC's EIS in Combination with a Supplemental Analysis Prepared by the City of Santa Clara to Satisfy CEQA for Relicensing of Bucks Creek Project (FERC Project No. 619); and Notice of the Availability of FERC's Draft EIS for the Project



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DATE: July 31, 2019

TO: Jessica Lopez, Chairperson
KonKow Valley Band of Maidu
2086 N. Villa St.
Palermo, CA, 95968
jessica@konkowmaidu.org
(707) 357 – 2415

SUBJECT: Bucks Creek Hydroelectric Relicensing Project – Consultation Request from CEQA Lead Agency,
City of Santa Clara

Dear Jessica Lopez,

This letter serves as the City of Santa Clara's (City) (operating as Silicon Valley Power or SVP) formal notification and request for tribal consultation for the proposed Bucks Creek Hydroelectric Relicensing Project (Bucks Creek Project or Project). Your contact information was provided to the City by the Native American Heritage Commission in early July of this year as a tribe that is traditionally and culturally affiliated with the geographic area of the project.

As described below, previous requests for consultation have been transmitted to many tribal groups in the Project area as far back as 2013, and certain tribal representatives have participated over the past several years in the Federal Energy Regulatory Commission's (FERC) proceedings on this Project. As CEQA Lead Agency for this Project, the City is hereby fulfilling its notification requirements in accordance with AB 52.

Background

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According to existing Project records, the City understands that the KonKow Valley Band of Maidu has previously been made aware of the Project and may have participated in follow-up conversations with Project personnel working on behalf of FERC and/or PG&E. For reference, a brief summary of the proposed Project and anticipated next steps is provided below. Attached to this letter is the Notice of Intent/Notice of Availability the City issued in regards to the Project on June 25, 2019. FERC issued its Draft EIS for the Project on June 14, 2019. The Draft EIS is available for review and comment at: <http://www.siliconvalleypower.com/svp-and-community/projects>. The comment period for the DEIS closes on August 13, 2019.

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Contact Information and Consultation Request

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Please don't hesitate to contact me at any time: John Davidson, Principal Planner, phone: 408-615-2478; email: JDavidson@santacalaraca.gov.

Sincerely,



John Davidson
Principal Planner
City of Santa Clara

CC:

Alan Soneda, Sr. Relicensing Project Manager, PG&E
Patricia Sussman, Senior Planner, EN2 Resources, Inc.

Enclosure:

Notice of the City of Santa Clara's Intent to Rely on FERC's EIS in Combination with a Supplemental Analysis Prepared by the City of Santa Clara to Satisfy CEQA for Relicensing of Bucks Creek Project (FERC Project No. 619); and Notice of the Availability of FERC's Draft EIS for the Project



*Giving You the
Power to Change the World*

DATE: July 31, 2019

TO: Dennis Ramirez, Chairperson
Mechoopda Indian Tribe
125 Mission Ranch Blvd
Chico, CA, 95926
dramirez@mechoopda-nsn.gov
(530) 899-8922

SUBJECT: Bucks Creek Hydroelectric Relicensing Project – Consultation Request from CEQA Lead Agency,
City of Santa Clara

Dear Dennis Ramirez,

This letter serves as the City of Santa Clara's (City) (operating as Silicon Valley Power or SVP) formal notification and request for tribal consultation for the proposed Bucks Creek Hydroelectric Relicensing Project (Bucks Creek Project or Project). Your contact information was provided to the City by the Native American Heritage Commission in early July of this year as a tribe that is traditionally and culturally affiliated with the geographic area of the project.

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Background

The City and Pacific Gas and Electric Company (PG&E) are joint applicants for the Bucks Creek Project, which requires a new license from the Federal Energy Regulatory Commission (FERC). The City is also the Lead Agency under the California Environmental Quality Act (CEQA) for the Project and as such is initiating development of a supplemental CEQA analysis that will, in combination with the Environmental Impact Statement (EIS) issued by FERC, satisfy the City's CEQA requirements for the Project. With this letter, the City is following up on previous tribal consultation initiated by PG&E and FERC to ensure applicable tribes have the opportunity to provide input and comment on the Project in advance of the City's preparation of the CEQA Supplement.

According to existing Project records, the City understands that the Mechoopda Indian Tribe has previously been made aware of the Project and may have participated in follow-up conversations with Project personnel working on behalf of FERC and/or PG&E. For reference, a brief summary of the proposed Project and anticipated next steps is provided below. Attached to this letter is the Notice of Intent/Notice of Availability the City issued in regards to the Project on June 25, 2019. FERC issued its Draft EIS for the Project on June 14, 2019. The Draft EIS is available for review and comment at: <http://www.siliconvalleypower.com/svp-and-community/projects>. The comment period for the DEIS closes on August 13, 2019.

Project Description and Location

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly

Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115- kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The Project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The Project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

Next Steps

The City will release its Draft CEQA Supplement following release of FERC's Final EIS for the Project. FERC's Final EIS for the Project is expected in early 2020. Subsequent to the release of the Draft CEQA Supplement, the State Water Board is expected to issue a Draft 401 Water Quality Certification. The City will make any necessary revisions to its Draft CEQA Supplement based on: (1) FERC's Final EIS and comments received on FERC's DEIS; (2) comments received on the City's Draft CEQA Supplement; (3) conditions contained in the Draft 401 Water Quality Certification; and (4) comments received on the Draft 401 Water Quality Certification. The City will then issue a Final CEQA Supplement which will be presented to the Santa Clara City Council for certification. The State Water Board will subsequently issue its Final 401 Water Quality Certification for the Bucks Creek Project.

Contact Information and Consultation Request

Please respond to this letter within 30 days of receipt if you would like to request consultation with the City of Santa Clara. Regardless of your response, the City will keep your contact information (as indicated above) in its list of potentially interested stakeholders and therefore you will receive a notice of availability (NOA) when the CEQA Supplement is available for public review. The CEQA Supplement will be circulated for at least a 45-day public review period. Additional Project information is available at: <http://www.bucksrelicensing.com/Public/>.

Please don't hesitate to contact me at any time: John Davidson, Principal Planner, phone: 408-615-2478; email: JDavidson@santacalaraca.gov.

Sincerely,



John Davidson
Principal Planner
City of Santa Clara

CC:

Alan Soneda, Sr. Relicensing Project Manager, PG&E
Patricia Sussman, Senior Planner, EN2 Resources, Inc.

Enclosure:

Notice of the City of Santa Clara's Intent to Rely on FERC's EIS in Combination with a Supplemental Analysis Prepared by the City of Santa Clara to Satisfy CEQA for Relicensing of Bucks Creek Project (FERC Project No. 619); and Notice of the Availability of FERC's Draft EIS for the Project



*Giving You the
Power to Change the World*

DATE: July 31, 2019

TO: Benjamin Clark, Chairperson
Mooretown Rancheria of Maidu Indians
#1 Alverda Drive
Oroville, CA, 95966
frontdesk@mooretown.org
(530) 533 – 3625

SUBJECT: Bucks Creek Hydroelectric Relicensing Project – Consultation Request from CEQA Lead Agency,
City of Santa Clara

Dear Benjamin Clark,

This letter serves as the City of Santa Clara's (City) (operating as Silicon Valley Power or SVP) formal notification and request for tribal consultation for the proposed Bucks Creek Hydroelectric Relicensing Project (Bucks Creek Project or Project). Your contact information was provided to the City by the Native American Heritage Commission in early July of this year as a tribe that is traditionally and culturally affiliated with the geographic area of the project.

As described below, previous requests for consultation have been transmitted to many tribal groups in the Project area as far back as 2013, and certain tribal representatives have participated over the past several years in the Federal Energy Regulatory Commission's (FERC) proceedings on this Project. As CEQA Lead Agency for this Project, the City is hereby fulfilling its notification requirements in accordance with AB 52.

Background

The City and Pacific Gas and Electric Company (PG&E) are joint applicants for the Bucks Creek Project, which requires a new license from the Federal Energy Regulatory Commission (FERC). The City is also the Lead Agency under the California Environmental Quality Act (CEQA) for the Project and as such is initiating development of a supplemental CEQA analysis that will, in combination with the Environmental Impact Statement (EIS) issued by FERC, satisfy the City's CEQA requirements for the Project. With this letter, the City is following up on previous tribal consultation initiated by PG&E and FERC to ensure applicable tribes have the opportunity to provide input and comment on the Project in advance of the City's preparation of the CEQA Supplement.

According to existing Project records, the City understands that the Mooretown Rancheria of Maidu Indians has previously been made aware of the Project and may have participated in follow-up conversations with Project personnel working on behalf of FERC and/or PG&E. For reference, a brief summary of the proposed Project and anticipated next steps is provided below. Attached to this letter is the Notice of Intent/Notice of Availability the City issued in regards to the Project on June 25, 2019. FERC issued its Draft EIS for the Project on June 14, 2019. The Draft EIS is available for review and comment at: <http://www.siliconvalleypower.com/svp-and-community/projects>. The comment period for the DEIS closes on August 13, 2019.

Project Description and Location

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly

Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115- kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The Project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The Project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

Next Steps

The City will release its Draft CEQA Supplement following release of FERC's Final EIS for the Project. FERC's Final EIS for the Project is expected in early 2020. Subsequent to the release of the Draft CEQA Supplement, the State Water Board is expected to issue a Draft 401 Water Quality Certification. The City will make any necessary revisions to its Draft CEQA Supplement based on: (1) FERC's Final EIS and comments received on FERC's DEIS; (2) comments received on the City's Draft CEQA Supplement; (3) conditions contained in the Draft 401 Water Quality Certification; and (4) comments received on the Draft 401 Water Quality Certification. The City will then issue a Final CEQA Supplement which will be presented to the Santa Clara City Council for certification. The State Water Board will subsequently issue its Final 401 Water Quality Certification for the Bucks Creek Project.

Contact Information and Consultation Request

Please respond to this letter within 30 days of receipt if you would like to request consultation with the City of Santa Clara. Regardless of your response, the City will keep your contact information (as indicated above) in its list of potentially interested stakeholders and therefore you will receive a notice of availability (NOA) when the CEQA Supplement is available for public review. The CEQA Supplement will be circulated for at least a 45-day public review period. Additional Project information is available at: <http://www.bucksrelicensing.com/Public/>.

Please don't hesitate to contact me at any time: John Davidson, Principal Planner, phone: 408-615-2478; email: JDavidson@santacalaraca.gov.

Sincerely,



John Davidson
Principal Planner
City of Santa Clara

CC:

Alan Soneda, Sr. Relicensing Project Manager, PG&E
Patricia Sussman, Senior Planner, EN2 Resources, Inc.

Enclosure:

Notice of the City of Santa Clara's Intent to Rely on FERC's EIS in Combination with a Supplemental Analysis Prepared by the City of Santa Clara to Satisfy CEQA for Relicensing of Bucks Creek Project (FERC Project No. 619); and Notice of the Availability of FERC's Draft EIS for the Project



*Giving You the
Power to Change the World*

DATE: July 31, 2019

TO: Brandon Gutierrez, Chairperson
Susanville Indian Rancheria
745 Joaquin Street
Susanville, CA, 96130
sirtribalchair@citlink.net
(530) 257-6264

SUBJECT: Bucks Creek Hydroelectric Relicensing Project – Consultation Request from CEQA Lead Agency,
City of Santa Clara

Dear Brandon Gutierrez,

This letter serves as the City of Santa Clara's (City) (operating as Silicon Valley Power or SVP) formal notification and request for tribal consultation for the proposed Bucks Creek Hydroelectric Relicensing Project (Bucks Creek Project or Project). Your contact information was provided to the City by the Native American Heritage Commission in early July of this year as a tribe that is traditionally and culturally affiliated with the geographic area of the project.

As described below, previous requests for consultation have been transmitted to many tribal groups in the Project area as far back as 2013, and certain tribal representatives have participated over the past several years in the Federal Energy Regulatory Commission's (FERC) proceedings on this Project. As CEQA Lead Agency for this Project, the City is hereby fulfilling its notification requirements in accordance with AB 52.

Background

The City and Pacific Gas and Electric Company (PG&E) are joint applicants for the Bucks Creek Project, which requires a new license from the Federal Energy Regulatory Commission (FERC). The City is also the Lead Agency under the California Environmental Quality Act (CEQA) for the Project and as such is initiating development of a supplemental CEQA analysis that will, in combination with the Environmental Impact Statement (EIS) issued by FERC, satisfy the City's CEQA requirements for the Project. With this letter, the City is following up on previous tribal consultation initiated by PG&E and FERC to ensure applicable tribes have the opportunity to provide input and comment on the Project in advance of the City's preparation of the CEQA Supplement.

According to existing Project records, the City understands that the Susanville Indian Rancheria has previously been made aware of the Project and may have participated in follow-up conversations with Project personnel working on behalf of FERC and/or PG&E. For reference, a brief summary of the proposed Project and anticipated next steps is provided below. Attached to this letter is the Notice of Intent/Notice of Availability the City issued in regards to the Project on June 25, 2019. FERC issued its Draft EIS for the Project on June 14, 2019. The Draft EIS is available for review and comment at: <http://www.siliconvalleypower.com/svp-and-community/projects>. The comment period for the DEIS closes on August 13, 2019.

Project Description and Location

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly

Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115- kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The Project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The Project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

Next Steps

The City will release its Draft CEQA Supplement following release of FERC's Final EIS for the Project. FERC's Final EIS for the Project is expected in early 2020. Subsequent to the release of the Draft CEQA Supplement, the State Water Board is expected to issue a Draft 401 Water Quality Certification. The City will make any necessary revisions to its Draft CEQA Supplement based on: (1) FERC's Final EIS and comments received on FERC's DEIS; (2) comments received on the City's Draft CEQA Supplement; (3) conditions contained in the Draft 401 Water Quality Certification; and (4) comments received on the Draft 401 Water Quality Certification. The City will then issue a Final CEQA Supplement which will be presented to the Santa Clara City Council for certification. The State Water Board will subsequently issue its Final 401 Water Quality Certification for the Bucks Creek Project.

Contact Information and Consultation Request

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Please don't hesitate to contact me at any time: John Davidson, Principal Planner, phone: 408-615-2478; email: JDavidson@santacalaraca.gov.

Sincerely,



John Davidson
Principal Planner
City of Santa Clara

CC:

Alan Soneda, Sr. Relicensing Project Manager, PG&E
Patricia Sussman, Senior Planner, EN2 Resources, Inc.

Enclosure:

Notice of the City of Santa Clara's Intent to Rely on FERC's EIS in Combination with a Supplemental Analysis Prepared by the City of Santa Clara to Satisfy CEQA for Relicensing of Bucks Creek Project (FERC Project No. 619); and Notice of the Availability of FERC's Draft EIS for the Project



*Giving You the
Power to Change the World*

DATE: July 31, 2019

TO: Don Ryberg, Chairperson
Tsi Akim Maidu
P.O. Box 510
Browns Valley, CA, 95918
tsi-akim-maidu@att.net
(530) 383 - 7234

SUBJECT: Bucks Creek Hydroelectric Relicensing Project – Consultation Request from CEQA Lead Agency,
City of Santa Clara

Dear Don Ryberg,

This letter serves as the City of Santa Clara's (City) (operating as Silicon Valley Power or SVP) formal notification and request for tribal consultation for the proposed Bucks Creek Hydroelectric Relicensing Project (Bucks Creek Project or Project). Your contact information was provided to the City by the Native American Heritage Commission in early July of this year as a tribe that is traditionally and culturally affiliated with the geographic area of the project.

As described below, previous requests for consultation have been transmitted to many tribal groups in the Project area as far back as 2013, and certain tribal representatives have participated over the past several years in the Federal Energy Regulatory Commission's (FERC) proceedings on this Project. As CEQA Lead Agency for this Project, the City is hereby fulfilling its notification requirements in accordance with AB 52.

Background

The City and Pacific Gas and Electric Company (PG&E) are joint applicants for the Bucks Creek Project, which requires a new license from the Federal Energy Regulatory Commission (FERC). The City is also the Lead Agency under the California Environmental Quality Act (CEQA) for the Project and as such is initiating development of a supplemental CEQA analysis that will, in combination with the Environmental Impact Statement (EIS) issued by FERC, satisfy the City's CEQA requirements for the Project. With this letter, the City is following up on previous tribal consultation initiated by PG&E and FERC to ensure applicable tribes have the opportunity to provide input and comment on the Project in advance of the City's preparation of the CEQA Supplement.

According to existing Project records, the City understands that the Tsi Akim Maidu has previously been made aware of the Project and may have participated in follow-up conversations with Project personnel working on behalf of FERC and/or PG&E. For reference, a brief summary of the proposed Project and anticipated next steps is provided below. Attached to this letter is the Notice of Intent/Notice of Availability the City issued in regards to the Project on June 25, 2019. FERC issued its Draft EIS for the Project on June 14, 2019. The Draft EIS is available for review and comment at: <http://www.siliconvalleypower.com/svp-and-community/projects>. The comment period for the DEIS closes on August 13, 2019.

Project Description and Location

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly

Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115- kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The Project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The Project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

Next Steps

The City will release its Draft CEQA Supplement following release of FERC's Final EIS for the Project. FERC's Final EIS for the Project is expected in early 2020. Subsequent to the release of the Draft CEQA Supplement, the State Water Board is expected to issue a Draft 401 Water Quality Certification. The City will make any necessary revisions to its Draft CEQA Supplement based on: (1) FERC's Final EIS and comments received on FERC's DEIS; (2) comments received on the City's Draft CEQA Supplement; (3) conditions contained in the Draft 401 Water Quality Certification; and (4) comments received on the Draft 401 Water Quality Certification. The City will then issue a Final CEQA Supplement which will be presented to the Santa Clara City Council for certification. The State Water Board will subsequently issue its Final 401 Water Quality Certification for the Bucks Creek Project.

Contact Information and Consultation Request

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Please don't hesitate to contact me at any time: John Davidson, Principal Planner, phone: 408-615-2478; email: JDavidson@santacalaraca.gov.

Sincerely,



John Davidson
Principal Planner
City of Santa Clara

CC:

Alan Soneda, Sr. Relicensing Project Manager, PG&E
Patricia Sussman, Senior Planner, EN2 Resources, Inc.
Grayson Coney, Cultural Director, Tsi Akim Maidu

Enclosure:

Notice of the City of Santa Clara's Intent to Rely on FERC's EIS in Combination with a Supplemental Analysis Prepared by the City of Santa Clara to Satisfy CEQA for Relicensing of Bucks Creek Project (FERC Project No. 619); and Notice of the Availability of FERC's Draft EIS for the Project



*Giving You the
Power to Change the World*

DATE: July 31, 2019

TO: Grayson Coney, Cultural Director
Tsi Akim Maidu
P.O. Box 510
Browns Valley, CA, 95918
tsi-akim-maidu@att.net
(530) 383-7234

SUBJECT: Bucks Creek Hydroelectric Relicensing Project – Consultation Request from CEQA Lead Agency,
City of Santa Clara

Dear Grayson Coney,

This letter serves as the City of Santa Clara's (City) (operating as Silicon Valley Power or SVP) formal notification and request for tribal consultation for the proposed Bucks Creek Hydroelectric Relicensing Project (Bucks Creek Project or Project). Your contact information was provided to the City by the Native American Heritage Commission in early July of this year as a tribe that is traditionally and culturally affiliated with the geographic area of the project.

As described below, previous requests for consultation have been transmitted to many tribal groups in the Project area as far back as 2013, and certain tribal representatives have participated over the past several years in the Federal Energy Regulatory Commission's (FERC) proceedings on this Project. As CEQA Lead Agency for this Project, the City is hereby fulfilling its notification requirements in accordance with AB 52.

Background

The City and Pacific Gas and Electric Company (PG&E) are joint applicants for the Bucks Creek Project, which requires a new license from the Federal Energy Regulatory Commission (FERC). The City is also the Lead Agency under the California Environmental Quality Act (CEQA) for the Project and as such is initiating development of a supplemental CEQA analysis that will, in combination with the Environmental Impact Statement (EIS) issued by FERC, satisfy the City's CEQA requirements for the Project. With this letter, the City is following up on previous tribal consultation initiated by PG&E and FERC to ensure applicable tribes have the opportunity to provide input and comment on the Project in advance of the City's preparation of the CEQA Supplement.

According to existing Project records, the City understands that the Tsi Akim Maidu has previously been made aware of the Project and may have participated in follow-up conversations with Project personnel working on behalf of FERC and/or PG&E. For reference, a brief summary of the proposed Project and anticipated next steps is provided below. Attached to this letter is the Notice of Intent/Notice of Availability the City issued in regards to the Project on June 25, 2019. FERC issued its Draft EIS for the Project on June 14, 2019. The Draft EIS is available for review and comment at: <http://www.siliconvalleypower.com/svp-and-community/projects>. The comment period for the DEIS closes on August 13, 2019.

Project Description and Location

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly

Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115- kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The Project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The Project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

Next Steps

The City will release its Draft CEQA Supplement following release of FERC's Final EIS for the Project. FERC's Final EIS for the Project is expected in early 2020. Subsequent to the release of the Draft CEQA Supplement, the State Water Board is expected to issue a Draft 401 Water Quality Certification. The City will make any necessary revisions to its Draft CEQA Supplement based on: (1) FERC's Final EIS and comments received on FERC's DEIS; (2) comments received on the City's Draft CEQA Supplement; (3) conditions contained in the Draft 401 Water Quality Certification; and (4) comments received on the Draft 401 Water Quality Certification. The City will then issue a Final CEQA Supplement which will be presented to the Santa Clara City Council for certification. The State Water Board will subsequently issue its Final 401 Water Quality Certification for the Bucks Creek Project.

Contact Information and Consultation Request

Please respond to this letter within 30 days of receipt if you would like to request consultation with the City of Santa Clara. Regardless of your response, the City will keep your contact information (as indicated above) in its list of potentially interested stakeholders and therefore you will receive a notice of availability (NOA) when the CEQA Supplement is available for public review. The CEQA Supplement will be circulated for at least a 45-day public review period. Additional Project information is available at: <http://www.bucksrelicensing.com/Public/>.

Please don't hesitate to contact me at any time: John Davidson, Principal Planner, phone: 408-615-2478; email: JDavidson@santacalaraca.gov.

Sincerely,



John Davidson
Principal Planner
City of Santa Clara

CC:

Don Ryberg, Chairperson, Tsi Akim Maidu
Alan Soneda, Sr. Relicensing Project Manager, PG&E
Patricia Sussman, Senior Planner, EN2 Resources, Inc.

Enclosure:

Notice of the City of Santa Clara's Intent to Rely on FERC's EIS in Combination with a Supplemental Analysis Prepared by the City of Santa Clara to Satisfy CEQA for Relicensing of Bucks Creek Project (FERC Project No. 619); and Notice of the Availability of FERC's Draft EIS for the Project



*Giving You the
Power to Change the World*

DATE: July 31, 2019

TO: Darrel Cruz, Cultural Resources Department
Washoe Tribe of Nevada and California
919 Highway 395 North
Gardnerville, NV, 89410
darrel.cruz@washoetribe.us
(775) 265 - 8600

SUBJECT: Bucks Creek Hydroelectric Relicensing Project – Consultation Request from CEQA Lead Agency,
City of Santa Clara

Dear Darrel Cruz,

This letter serves as the City of Santa Clara's (City) (operating as Silicon Valley Power or SVP) formal notification and request for tribal consultation for the proposed Bucks Creek Hydroelectric Relicensing Project (Bucks Creek Project or Project). Your contact information was provided to the City by the Native American Heritage Commission in early July of this year as a tribe that is traditionally and culturally affiliated with the geographic area of the project.

As described below, previous requests for consultation have been transmitted to many tribal groups in the Project area as far back as 2013, and certain tribal representatives have participated over the past several years in the Federal Energy Regulatory Commission's (FERC) proceedings on this Project. As CEQA Lead Agency for this Project, the City is hereby fulfilling its notification requirements in accordance with AB 52.

Background

The City and Pacific Gas and Electric Company (PG&E) are joint applicants for the Bucks Creek Project, which requires a new license from the Federal Energy Regulatory Commission (FERC). The City is also the Lead Agency under the California Environmental Quality Act (CEQA) for the Project and as such is initiating development of a supplemental CEQA analysis that will, in combination with the Environmental Impact Statement (EIS) issued by FERC, satisfy the City's CEQA requirements for the Project. With this letter, the City is following up on previous tribal consultation initiated by PG&E and FERC to ensure applicable tribes have the opportunity to provide input and comment on the Project in advance of the City's preparation of the CEQA Supplement.

According to existing Project records, the City understands that the Washoe Tribe of Nevada and California has previously been made aware of the Project and may have participated in follow-up conversations with Project personnel working on behalf of FERC and/or PG&E. For reference, a brief summary of the proposed Project and anticipated next steps is provided below. Attached to this letter is the Notice of Intent/Notice of Availability the City issued in regards to the Project on June 25, 2019. FERC issued its Draft EIS for the Project on June 14, 2019. The Draft EIS is available for review and comment at: <http://www.siliconvalleypower.com/svp-and-community/projects>. The comment period for the DEIS closes on August 13, 2019.

Project Description and Location

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly

Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115- kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The Project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The Project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

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Contact Information and Consultation Request

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Please don't hesitate to contact me at any time: John Davidson, Principal Planner, phone: 408-615-2478; email: JDavidson@santacalaraca.gov.

Sincerely,



John Davidson
Principal Planner
City of Santa Clara

CC:

Alan Soneda, Sr. Relicensing Project Manager, PG&E
Patricia Sussman, Senior Planner, EN2 Resources, Inc.
Serrell Smokey, Chairperson, Washoe Tribe of Nevada and California

Enclosure:

Notice of the City of Santa Clara's Intent to Rely on FERC's EIS in Combination with a Supplemental Analysis Prepared by the City of Santa Clara to Satisfy CEQA for Relicensing of Bucks Creek Project (FERC Project No. 619); and Notice of the Availability of FERC's Draft EIS for the Project



*Giving You the
Power to Change the World*

DATE: July 31, 2019

TO: Serrell Smokey, Chairperson
Washoe Tribe of Nevada and California
919 Highway 395 North
Gardnerville, NV, 89410
serrell.smokey@washoetribe.us
(775) 265 - 8600

SUBJECT: Bucks Creek Hydroelectric Relicensing Project – Consultation Request from CEQA Lead Agency,
City of Santa Clara

Dear Serrell Smokey,

This letter serves as the City of Santa Clara's (City) (operating as Silicon Valley Power or SVP) formal notification and request for tribal consultation for the proposed Bucks Creek Hydroelectric Relicensing Project (Bucks Creek Project or Project). Your contact information was provided to the City by the Native American Heritage Commission in early July of this year as a tribe that is traditionally and culturally affiliated with the geographic area of the project.

As described below, previous requests for consultation have been transmitted to many tribal groups in the Project area as far back as 2013, and certain tribal representatives have participated over the past several years in the Federal Energy Regulatory Commission's (FERC) proceedings on this Project. As CEQA Lead Agency for this Project, the City is hereby fulfilling its notification requirements in accordance with AB 52.

Background

The City and Pacific Gas and Electric Company (PG&E) are joint applicants for the Bucks Creek Project, which requires a new license from the Federal Energy Regulatory Commission (FERC). The City is also the Lead Agency under the California Environmental Quality Act (CEQA) for the Project and as such is initiating development of a supplemental CEQA analysis that will, in combination with the Environmental Impact Statement (EIS) issued by FERC, satisfy the City's CEQA requirements for the Project. With this letter, the City is following up on previous tribal consultation initiated by PG&E and FERC to ensure applicable tribes have the opportunity to provide input and comment on the Project in advance of the City's preparation of the CEQA Supplement.

According to existing Project records, the City understands that the Washoe Tribe of Nevada and California has previously been made aware of the Project and may have participated in follow-up conversations with Project personnel working on behalf of FERC and/or PG&E. For reference, a brief summary of the proposed Project and anticipated next steps is provided below. Attached to this letter is the Notice of Intent/Notice of Availability the City issued in regards to the Project on June 25, 2019. FERC issued its Draft EIS for the Project on June 14, 2019. The Draft EIS is available for review and comment at: <http://www.siliconvalleypower.com/svp-and-community/projects>. The comment period for the DEIS closes on August 13, 2019.

Project Description and Location

The Bucks Creek Hydroelectric Project is located on Bucks, Grizzly, and Milk Ranch Creeks, in the Sierra Nevada Mountains in Plumas County, California. The 84.8-megawatt project consists of Bucks Creek and Grizzly

Powerhouses owned by Pacific Gas & Electric Company and the City of Santa Clara, respectively, including a 4.2-mile-long, 115- kilovolt Grizzly Tap Transmission Line; water storage, diversion and conveyance facilities associated with the two powerhouses, including Bucks Lake, Lower Bucks Lake, Three Lakes, and Grizzly Forebay; and other associated facilities. The Project is a peaking system normally operated remotely from PG&E's Rock Creek powerhouse switching center. Operations of the project developments are coordinated to optimize the use of water, including the operations of PG&E's other three FERC-licensed hydroelectric projects in the North Fork Feather River watershed (Project Nos. 2107, 2105, and 1962). The Project affects approximately 1,539.5 acres in the Plumas National Forest administered by the U.S. Department of Agriculture, Forest Service. The licensees are not proposing to add capacity or make any major modifications to the project or its operations under the new license.

Next Steps

The City will release its Draft CEQA Supplement following release of FERC's Final EIS for the Project. FERC's Final EIS for the Project is expected in early 2020. Subsequent to the release of the Draft CEQA Supplement, the State Water Board is expected to issue a Draft 401 Water Quality Certification. The City will make any necessary revisions to its Draft CEQA Supplement based on: (1) FERC's Final EIS and comments received on FERC's DEIS; (2) comments received on the City's Draft CEQA Supplement; (3) conditions contained in the Draft 401 Water Quality Certification; and (4) comments received on the Draft 401 Water Quality Certification. The City will then issue a Final CEQA Supplement which will be presented to the Santa Clara City Council for certification. The State Water Board will subsequently issue its Final 401 Water Quality Certification for the Bucks Creek Project.

Contact Information and Consultation Request

Please respond to this letter within 30 days of receipt if you would like to request consultation with the City of Santa Clara. Regardless of your response, the City will keep your contact information (as indicated above) in its list of potentially interested stakeholders and therefore you will receive a notice of availability (NOA) when the CEQA Supplement is available for public review. The CEQA Supplement will be circulated for at least a 45-day public review period. Additional Project information is available at: <http://www.bucksrelicensing.com/Public/>.

Please don't hesitate to contact me at any time: John Davidson, Principal Planner, phone: 408-615-2478; email: JDavidson@santacalaraca.gov.

Sincerely,



John Davidson
Principal Planner
City of Santa Clara

CC:

Darrel Cruz, Cultural Resources Department, Washoe Tribe of Nevada and California
Alan Soneda, Sr. Relicensing Project Manager, PG&E
Patricia Sussman, Senior Planner, EN2 Resources, Inc.

Enclosure:

Notice of the City of Santa Clara's Intent to Rely on FERC's EIS in Combination with a Supplemental Analysis Prepared by the City of Santa Clara to Satisfy CEQA for Relicensing of Bucks Creek Project (FERC Project No. 619); and Notice of the Availability of FERC's Draft EIS for the Project



Greenville Rancheria

P.O. Box 279 / 410 Main Street • Greenville, CA 95947 • 530.284-7990 • Fax 530.284-7299

July 02, 2019

Reena Brilliot
Planning Manager
1500 Warburton Ave.
Santa Clara, CA 95050

Project: Bucks Creek Hydroelectric Project



Dear: Reena Brilliot

The Greenville Rancheria has reviewed your letter dated June 25, 2019, for your Bucks Creek Project. We have no comments or objections with your project. If at any time during your project things change, please advise us via mail for our review.

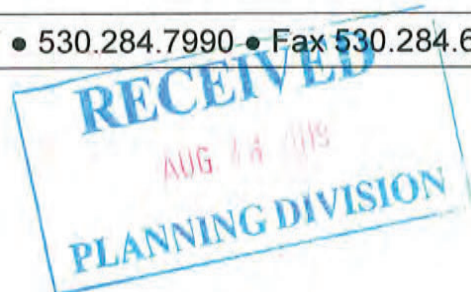
Sincerely,

Crystal Rios
Tribal Vice Chairwoman
Greenville Rancheria



Greenville Rancheria

P.O. Box 279 • 410 Main Street • Greenville, CA 95947 • 530.284.7990 • Fax 530.284.6612



August 12, 2019

City of Santa Clara
Community Development Department
1500 Warburton Avenue,
Santa Clara, CA 95050

ATTN: Reena Brilliot
Planning Manager

RE: Bucks Creek FERC Boundary Adjustment Project
FERC Notice

Dear Ms. Brilliot:

Thank you for contacting Greenville Rancheria regarding the project in Plumas County. We appreciate you notifying us. However, we have no comment at this time.

If the scope of the project changes or if any other information comes to light, please notify us immediately.

Sincerely,

Crystal Rios
Tribal Vice-Chairwoman

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