Sacramento Municipal Utility District Station H Substation Project

Initial Study • November 2020





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Lead Agency:

Sacramento Municipal Utility District 6201 S Street, MS B209 Sacramento, CA 95817-1899

or

P.O. Box 15830 MS B209 Sacramento, CA 95852-1830 Attn: Rob Ferrera (916) 732-6676 or rob.ferrera@smud.org

Prepared by:

Ascent Environmental
455 Capitol Mall, Suite 300
Sacramento, CA 95814
Contact: Cori Resha
Cori.Resha@ascentenvironmental.com

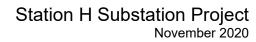




TABLE OF CONTENTS

1.	INTF	RODUCTION	7				
	1.1	Project Overview	7				
	1.2	Purpose of Document					
	1.3	CEQA Process					
	1.4	SMUD Board Approval Process	9				
	1.5	Document Organization	9				
	1.6	Environmental Factors Potentially Affected					
	1.7	Determination					
2.	PRO	JECT DESCRIPTION	12				
	2.1	Introduction	12				
	2.2	Project Objectives	12				
	2.3	Project Location	13				
	2.4	Project Description	13				
	2.5	Potential Permits and Approvals Required	17				
3.	ENV	ENVIRONMENTAL IMPACT EVALUATION					
	3.0	Evaluation of Environmental Impacts	19				
	3.1	Aesthetics	21				
	3.2	Agriculture and Forestry Resources	24				
	3.3	Air Quality					
	3.4	Biological Resources	35				
	3.5	Cultural Resources					
	3.6	Energy					
	3.7	Geology and Soils					
	3.8	Greenhouse Gas Emissions					
	3.9	Hazards and Hazardous Materials					
	3.10	Hydrology and Water Quality					
	3.11	Land Use and Planning					
	3.12	Mineral Resources					
	3.13	Noise and Vibration					
	3.14	Population and Housing					
	3.15	Public Services					
	3.16	Recreation					
	3.17	Traffic and Transportation					
	3.18	Tribal Cultural Resources					
	3.19	Utilities					
	3.20 3.21	Wildfire Mandatory Findings of Significance					
4.		OF PREPARERS	_				
5.	REF	ERENCES	93				

APPENDICES

- Air Emissions Modeling Data Threatened and Endangered Species List В
- Noise Report С



Station H Substation Project November 2020

- x I	41	R	IT	9
$-\Delta$		u		u

	roject Vicinityroject Site	
TABLES		
	Criteria Air Pollutants Summary of Unmitigated Emissions Generated During Project Construction by Year	
Table 3.3-3	Summary of Mitigated Emissions Generated During Project Construction by Year	



November 2020

ACRONYMS AND OTHER ABBREVIATIONS

AB Assembly Bill

BACT Best Available Control Technology

bgs below ground surface

BMP best management practices

CAAQS California Ambient Air Quality Standards

Cal EPA California Environmental Protection Agency's

CalEEMod California Emissions Estimator Model

CARB California Air Resources Board
CCR California Code of Regulations

CDFW California Department of Fish and Wildlife

CEC California Energy Commission

CEQA California Environmental Quality Act
CESA California Endangered Species Act

CH₄ methane

CNDDB California Natural Diversity Database

CNPS California Native Plant Society

CO carbon monoxide

CO₂ carbon dioxide

CRPR California Rare Plant Ranks

CSS combined sewer system

dB decibels

DOC California Department of Conservation's

DTSC Department of Toxic Substances Control

EIR Environmental Impact Report

EPA U.S. Environmental Protection Agency

ERCS Environmental Resources and Customer Service



November 2020

ESA Endangered Species Act

FEMA Federal Emergency Management Agency
FMMP Farmland Mapping and Monitoring Program

GHG greenhouse gases

GIS gas-insulated substation

H₂S hydrogen sulfide
HFC hydrofluorocarbons

I-5 Interstate 5

in/sec inches per second

IPaC Information, Planning, and Consultation System

IS Initial Study

lbs/day pounds per day
Ldn Day-Night Level

L_{eq} Equivalent Continuous Sound Level

MBTA Migratory Bird Treaty Act

MMRP mitigation monitoring and reporting program

MRZ Mineral Resource Zones

MTCO₂e metric tons of carbon dioxide equivalent

N₂O nitrous oxide

NAAQS National Ambient Air Quality Standards
NAHC Native American Heritage Commission

NCIC North Central Information Center

NO₂ nitrogen dioxide

NOP Notice of Preparation

NO_X nitrogen oxides



November 2020

NPDES National Pollutant Discharge Elimination System

NRCS Natural Resources Conservation Service

 O_3 ozone

Pb lead

PFC perfluorocarbons

PM₁₀ particulate matter less than 10 microns in diameter PM_{2.5} particulate matter less than 2.5 microns in diameter

ppm parts per million

PPV peak particle velocity
PRC Public Resources Code

RMS root-mean-square

ROG reactive organic gases
RSP Railyards Specific Plan

RWQCB Regional Water Quality Control Board

SF₆ sulfur hexafluoride

SFD Sacramento Fire Department

SMAQMD Sacramento Metropolitan Air Quality Management District

SO₂ sulfur dioxide

SPD Sacramento Police Department

SPL sound pressure level

SQIP Stormwater Quality Improvement Plan

SVAB Sacramento Valley Air Basin

SVOC semivolatile organic compounds

SWRCB State Water Resources Control Board's

TAC toxic air contaminants

TPH total petroleum hydrocarbons



Station H Substation Project November 2020

tons per year tpy

United Auburn Indian Community of the Auburn Rancheria **UAIC**

UPRR Union Pacific Railroad

USFWS U.S. Fish and Wildlife Service

UST underground storage tanks

VOC volatile organic compounds



1. Introduction

1.1 Project Overview

The Sacramento Municipal Utility District (SMUD) proposes to decommission the existing Station A substation and remove all electrical-substation-related equipment from within the historic Old Folsom Powerhouse Sacramento Station A building (historic Station A building) and the outdoor substation yard. Following the removal of all Station A equipment, SMUD would construct a new electrical substation (Station H) in place of the outdoor substation along the north side of H Street between 6th Street and 7th Street in downtown Sacramento ("Station H Substation Project").

1.2 Purpose of Document

This Initial Study (IS) has been prepared by SMUD to evaluate potential environmental effects resulting from the Station H Substation Project. Chapter 2, "Project Description," presents the detailed project information.

This document has been prepared in accordance with the California Environmental Quality Act (CEQA) (Public Resources Code [PRC] Section 21000 et seq.) and the CEQA Guidelines (California Code of Regulations [CCR] Section 15000 et seq.). Under CEQA, an IS can be prepared by a lead agency to determine if a project may have a significant effect on the environment (CEQA Guidelines Section 15063[a]), and thus to determine the appropriate environmental document. For this project, the lead agency has prepared the following analysis that identifies potential physical environmental impacts and mitigation measures that would reduce impacts to a less-than-significant level. SMUD is the lead agency responsible for complying with the provisions of CEQA.

In accordance with provisions of CEQA, SMUD is distributing this IS along with a Notice of Preparation (NOP) of an environmental impact report (EIR) to solicit comments on the scope and analysis of the EIR. The NOP will be distributed to property owners within 500 feet of the project site, as well as to the State Clearinghouse / Governor's Office of Planning and Research and each responsible and trustee agency. The IS and NOP will be available a 30-day scoping period during which time comments may be submitted to SMUD. The scoping period begins on November 4, 2020 and ends on December 8, 2020.



November 2020

If you wish to send written comments (including via e-mail), they must be received by close of business on December 8, 2020. Written comments should be addressed to:

SMUD-Environmental Services P.O. Box 15830 MS B209 Sacramento, CA 95852-1830 Attn: Rob Ferrera

E-mail comments may be addressed to rob.ferrera@smud.org. If you have questions regarding the IS or NOP, please call Rob Ferrera at (916) 732-6676.

Digital copies of the IS and NOP are available on the internet at: https://www.smud.org/CEQA. Hardcopies of the IS and NOP are available for public review at the following locations:

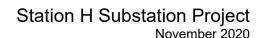
Sacramento Municipal Utility District Customer Service Center 6301 S St. Sacramento. CA 95817

Sacramento Municipal Utility District East Campus Operations Center 4401 Bradshaw Road Sacramento, CA 95827

1.3 CEQA Process

The purpose of an NOP is to provide sufficient information about the project and its potential environmental impacts to allow agencies and interested parties the opportunity to provide a meaningful response related to the scope and content of the EIR, including mitigation measures that should be considered and alternatives that should be addressed (CCR Section 15082[b]). Comments submitted in response to the NOP are used by the lead agency to identify broad topics to be addressed in the EIR. Comments on environmental issues received during the NOP public comment period are considered and addressed, where appropriate, in the Draft EIR

The Draft EIR will be released for a 45-day public review period during which time agencies and individuals may submit written comments regarding the Draft EIR. Following public review of the Draft EIR, a Final EIR will be prepared that will include both written and oral comments on the Draft EIR that were received during the public review period. The Final EIR will also include responses to those comments and any revisions to the Draft EIR.





Before taking action on the project, the lead agency is required to certify that the EIR has been completed in compliance with CEQA, that the decision-making body reviewed and considered the information in the EIR, and that the EIR reflects the independent judgment of the lead agency.

1.4 SMUD Board Approval Process

The SMUD Board of Directors must certify the EIR and approve the mitigation monitoring and reporting program (MMRP) before it can approve the project. Prior to that, the project and relevant environmental documentation will be formally presented at a SMUD Environmental Resources and Customer Service (ERCS) Committee meeting for consideration, discussion, and recommendation to the Board. The SMUD Board of Directors will then consider certification of the EIR and adoption of the MMRP at its next regular meeting. Meetings of the SMUD Board of Directors are generally held on the third Thursday of each month.

1.5 Document Organization

This IS is organized as follows:

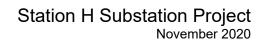
Chapter 1: Introduction. This chapter provides an introduction to the environmental review process and describes the purpose and organization of this document.

Chapter 2: Project Description. This chapter provides a detailed description of the project.

Chapter 3: Environmental Checklist. This chapter presents an analysis of a range of environmental issues identified in the CEQA Environmental Checklist and determines if the project would result in no impact, a less-than-significant impact, a less-than-significant impact with mitigation incorporated, or a potentially significant impact. Where needed to reduce impacts to a less-than-significant level, mitigation measures are presented.

Chapter 4: List of Preparers. This chapter lists the organizations and people that prepared the document.

Chapter 5: References. This chapter lists the references used in preparation of this Draft IS.

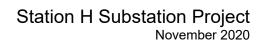




1.6 Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

Aesthetics	☐ Agriculture and Forestry Resources	Air Quality
Biological Resources	⊠ Cultural Resources	Geology / Soils
Greenhouse Gas Emissions	Hazards & Hazardous Materials	Hydrology / Water Quality
Land Use / Planning	☐ Mineral Resources	Noise
Population / Housing	☐ Public Services	Recreation
Transportation / Traffic	⊠ Tribal Cultural Resources	Utilities / Service Systems
Mandatory Findings of Significance	☐ None With Mitigation	





1.7 Determination

On the b	n the basis of this initial evaluation:					
	I find that the proposed project could not have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.					
	I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.					
	I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.					
	I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.					
	I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.					
<<		November 2, 2020				
Signa	ature	Date				
Rob Ferrera Environmental Specialist						
Printe	Printed Name Title					
Sacra	amento Municipal Utility District					
Agen	Agency					



2. Project Description

2.1 Introduction

SMUD's Station A electrical substation is near the end of its service life and is being replaced by the new Station G electrical substation currently under construction on an adjacent property. Upon completion of Station G, SMUD is proposing to decommission Station A and remove all electrical substation related equipment from within the historic Old Folsom Powerhouse Sacramento Station A building (historic Station A building) and the outdoor substation yard. Following the removal of all Station A equipment, SMUD would construct a new electrical substation (Station H) in place of the outdoor substation along the north side of H Street between 6th Street and 7th Street in downtown Sacramento ("Station H Substation Project").

The historic Station A building would be completely isolated from the new Station H and would continue to be used for storage of electric equipment. Station H would include two 115kV underground transmission lines, two 115/21kV transformers, a 21kV main-tie-main switchgear metal building structure, a control building, and a canopy structure between the new Station H substation yard and the historic Station A building. Station H's 115kV lines would tie into the new Station G currently under construction across Government Alley north of the site.

2.2 Project Objectives

In 2015, SMUD completed an IS/MND for the Station A Relocation and Rebuild Project which did not include plans for future use of the historic Station A building or substation yard following final construction of Station G. This project includes the future plans not known at that time and not evaluated in that IS/MND. The CEQA objectives for the project include:

- provide safe and reliable electrical service to existing and proposed development in the downtown Sacramento area:
- meet SMUD's goals of ensuring electrical service reliability in the downtown Sacramento area by 2024;
- provide greater operational flexibility between circuits and substations in the area;
- maximize the use of available SMUD property and resources;
- minimize impacts to nearby sensitive receptors; and,
- minimize potential conflicts with existing planning efforts within the City of Sacramento.



2.3 Project Location

The project would be located at the northeast corner of 6th Street and H Street in downtown Sacramento (See Figure 2-1). The project site is bordered by H Street to the south, 6th Street to the west, Government Alley to the north, and the Mercy Housing 7th & H Housing Community (Mercy Housing Community) to the east. Construction staging is not yet known but is assumed to be within one mile of the project site and would be located on an existing paved area (e.g., surface parking lot). As shown in Figure 2-2, much of the project site is currently occupied by Station A equipment and the historic Station A building, which is a California Historical Landmark.

The project is located in a highly developed area of downtown Sacramento. Sacramento County municipal buildings near the project site include the Sheriff's Department, Recorder's Office, Department of Technology, courthouse, jail, Administration Center, and two parking garages. The Mercy Housing Community is directly adjacent to the eastern edge of the project site. The Mercy Housing Community includes retail and clinic space on the ground floor with 150 residential units spread across seven stories. The Mercy Housing Community also includes two large landscaped terraces on the second floor. SMUD's Station G substation is currently under construction directly north of the project site across Government Alley and is within the boundary of the Railyards Specific Plan area. The privately-owned Hall of Justice Building is across the street to the south and the U.S. District Court is across the street to the southwest. The historic Rail Depot and Sacramento Intermodal Transportation Facility are located approximately 800 feet to the west.

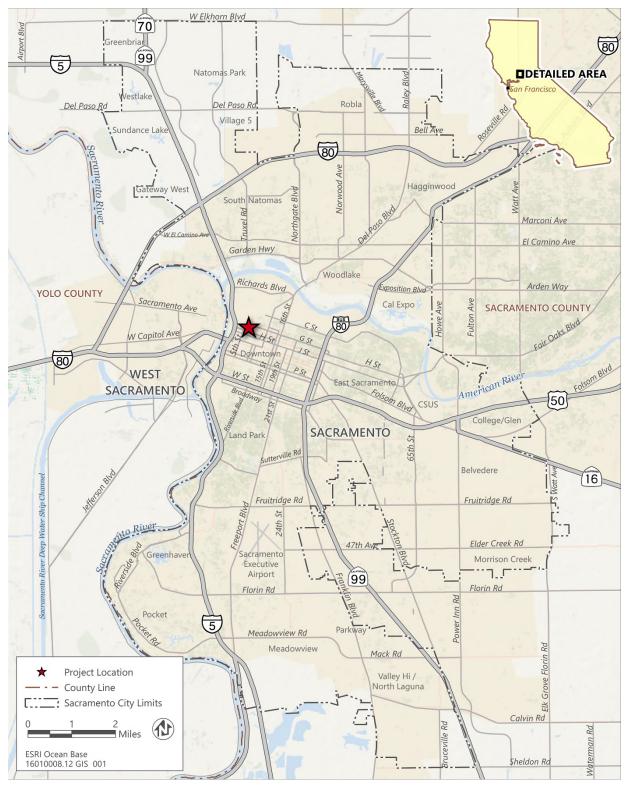
2.4 Project Description

With the City of Sacramento's continued implementation of both the Central City Specific Plan and the Railyards Specific Plan Environmental Impact Report (EIR), maintaining SMUD's ability to provide reliable electrical service within the downtown and the surrounding area is essential. The project involves the decommissioning and removal of outdated Station A equipment that is currently present at the project site and replacing existing equipment within the outdoor area between the historic Station A building and the Mercy Housing Community to the east with new outdoor substation equipment.

As part of the decommissioning of Station A, SMUD would remove and dismantle existing substation equipment, including protection and control equipment within the historic Station A building and transformers and switchgear within the outdoor switchyard. Decommissioning activities would also include the removal of oil pump equipment from within the historic Station A building. Equipment from inside the historic Station A building would be removed through existing doorways and no modifications to the structure would occur. Some equipment may need to be dismantled prior to removal. Additionally, two existing underground 115 kV lines located within the Government Alley to the north of the site would be abandoned in place.



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Source: adapted by Ascent Environmental in 2020

Figure 2-1. Project Vicinity



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Source: adapted by Ascent Environmental in 2020

Figure 2-2. Project Site



November 2020

Once equipment associated with Station A has been decommissioned and the existing yard has been cleared, new equipment would be assembled and installed on site. The proposed substation would include two 115kV underground transmission lines, two 115/21kV transformers, a 21kV main-tie-main switchgear metal building structure with three feeder breakers per bay, and a control building. Station H would tie into the new Station G (currently under construction) via two new 115kV lines to be located within Government Alley, immediately north of the project site. The proposed electrical equipment to be located on site is anticipated to be no taller than existing Station A equipment currently located at the site, which is approximately 26 feet.

A canopy structure is proposed to be located between the new Station H substation yard and the historic Station A building. The canopy would be approximately the same height as the existing equipment in the outdoor area with a maximum height expected to be approximately 26 feet in height at its tallest point. The canopy roof would be angled and is designed to shield the control building in the event that bricks fall from the exterior of the Station A building.

2.4.1 Project Operation

Operation and access of the new substation generally would be similar to the existing Station A substation yard. Maintenance workers and other SMUD employees would periodically access the site through Government Alley. The historic Station A building would remain unoccupied; however, SMUD maintenance employees would visit the building approximately twice per month to conduct routine checks and maintenance.

2.4.2 Project Construction

Station H would include two 115kV underground transmission lines, two 115/21kV transformers, a 21kV main-tie-main switchgear with three feeder breakers per bay, and a control building. Two new 115kV lines would be installed beneath Government Alley to connect Station H to Station G. Excavation associated with construction of these new connections and installation of new equipment would reach a depth of 15 to 30 feet below ground surface, though piles needed for seismic support could go as deep as 55 feet. SMUD anticipates excavation and removal of existing soil and import of backfill to reestablish grade within the site, though removal and import volumes are not yet known. Lighting within the project site would consist of new light-emitting diode light sources. Lighting fixtures would be selected to complement the proposed site function and surrounding visual character.

Project construction activities would also include removal of the existing concrete block wall, located along H Street, and replacement with a new wall that would shield views of the new equipment from H Street. Some features within the new Station H yard may help shield views from the adjacent Mercy Housing Community.





Construction equipment and materials staging area would be located within nearby vacant land. While the staging areas have not yet been identified and would be identified by the contractor based on availability at the time, it is assumed that staging areas would be within one mile of the project site. During construction, access to the project site would be maintained, with the primary access point for construction equipment, deliveries, and workers located from Government Alley to avoid potential conflicts with Light Rail trains along H Street. Therefore, construction activities would require a temporary closure of Government Alley.

Construction would require an average daily worker population of approximately 10 workers, with a peak of approximately 30 workers during peak construction activities associated with on-site demolition, excavation, and heavy equipment deliveries and installations.

2.4.3 Project Schedule

The decommissioning of Station A is anticipated to begin in the second half of 2022 and would be completed by early 2023. The construction of Station H is anticipated to begin soon after the decommission of Station A and would be completed in 2024. Construction intensity and hours would be in accordance with the City's Noise Ordinance, contained in Title 8, Chapter 8.68 of the Sacramento City Code. Construction would be limited to the hours between 7 a.m. and 6 p.m. Monday through Saturday, and between the hours of 9 a.m. and 6 p.m. on Sunday.

2.5 Potential Permits and Approvals Required

Elements of the project could be subject to permitting and/or approval authority of other agencies. As the lead agency pursuant to CEQA, SMUD is responsible for considering the adequacy of the CEQA documentation and determining if the project should be approved. Other potential permits required from other agencies could include:

State

• California Department of Transportation: Permits for movement of oversized or excessive loads on State Highways.

Local

• Sacramento Metropolitan Air Quality Management District (SMAQMD): Authority to Construct/Permit to Operate pursuant to SMAQMD Regulation 2 (Rule 201 et seq.).

November 2020



Station H Substation Project November 2020

• City of Sacramento:

- Tree removal permit—to comply with the City of Sacramento Tree Ordinance
- Transmission Facilities Permit to comply with Sacramento City Code requirements
- Building permits—to comply with Sacramento City Code requirements
- Encroachment permit
- Improvement Plans
- Grading Permit
- Design Review
- County of Sacramento: connection to the sewer system



3. Environmental Impact Evaluation

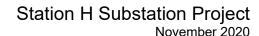
3.0 Evaluation of Environmental Impacts

- 1. A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3. Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4. "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less-Than-Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less-than-significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
- 5. Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
 - a) Earlier Analysis Used. Identify and state where they are available for review.
 - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.



November 2020

- c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6. Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- 7. Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.
- 8. This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- 9. The explanation of each issue should identify:
 - a) the significance criteria or threshold, if any, used to evaluate each question;
 and
 - b) the mitigation measure identified, if any, to reduce the impact to less than significance.





3.1 Aesthetics

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
I.	Aesthetics				
	cept as provided in Public Resources Code section 21 nificant for qualifying residential, mixed-use residential, a	`	•		nsidered
a)	Have a substantial adverse effect on a scenic vista?			\boxtimes	
b)	Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				
c)	In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?				
d)	Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				

3.1.1 Environmental Setting

The project site includes the historic Station A building and the adjacent outdoor yard that houses transformers and switchgear equipment. The historic Station A building is a 3-story building with a brick exterior. The historic Station A building is situated at the northeast corner of the intersection of 6th Street and H Street, with the building spanning the length between H Street and Government Alley. An 8-foot cinderblock wall separates the substation yard from the sidewalk along H Street, and there are two swinging chain link gates for site access. Along the north side of the site along Government Alley, there is an 8-foot tall chain link fence with sliding gates to permit site access. Along the eastern edge of the project site, there is a 30-foot tall brick wall separating the project site from the adjacent Mercy Housing Community. The transformers and switchgears in the substation yard are visible above the fencing along H Street and Government Alley.

As previously described in Section 2.0, "Project Description," surrounding uses consist of Sacramento County municipal buildings including the Sheriff's Department, Recorder's Office, Department of Technology, courthouse, jail, Administration Center, two parking garages, a parking lot under construction for development of Substation E, the Hall of Justice Building, and the U.S. District Court is across the street to the southwest. Additionally, the historic Rail Depot and Sacramento Intermodal Transportation Facility are located approximately 800 feet west of the project site.



November 2020



Surrounding structures range in size, height, and character. The visual character of the nearby uses is typical of the downtown area, which includes a variety of State and private business buildings, public transit and parking infrastructure, and residential housing. Scenic resources within the project vicinity include the historic Station A building, which is within the project site. Distant views towards the coast ranges or the Sierra Nevada foothills are largely limited due to existing surrounding buildings and the developed nature of the project area.

3.1.2 Discussion

a) Have a substantial adverse effect on a scenic vista?

Less than Significant. A scenic vista is generally defined as a distant public view along or through an opening or corridor that is recognized and valued for its scenic quality, or a natural or cultural resource that is indigenous to the area. The *Sacramento 2035 General Plan Update* designates the American River and Sacramento River, including associated parkways, the State Capitol (as defined by the Capitol View Protection Ordinance), and important historic structures listed on the Sacramento Register of Historic and Cultural Resources, California and/or National Registers as scenic resources (City of Sacramento 2014a:4.13-4). The closest scenic resource to the project site is the historic Station A building, located within the project site. As described above, while interior equipment would be removed from the building, the project would not include any substantial adverse alterations to the building's interior and no modifications to the structure's exterior. Once project construction is complete, the building would be maintained and regularly inspected by SMUD personnel. The existing perimeter fencing would be replaced with similar fencing along both H Street and Government Alley and would be reviewed by the City of Sacramento to ensure consistency of aesthetic condition.

Existing development within the project area limits long-distance views in the project area. Further, the existing on-site development and fencing largely precludes views of and through the project site, and conditions would not change with implementation of the project, which would replace the existing fencing and outdoor substation equipment. Views in the vicinity of the project site are short- to mid-range and typical reflect the urban character of the surroundings, which are not considered scenic vistas. As the replacement equipment would be in the same location as the existing equipment and would be of similar mass and scale, the project would not further impede long-distance views in the area. Therefore, the project would have a *less-than-significant* impact on scenic vistas, and no mitigation is required.

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact. Though a small portion of Interstate 5 (I-5) is designated as a scenic highway, the segment of I-5 located near the project site is not designated as a state scenic highway. The nearest designated scenic roadway is Route 160, approximately 8 miles



November 2020

south of the project area (Caltrans 2019). Because there are no designated state scenic highways within, adjacent to, or visible from the project area, the project would not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway. The project would have **no impact**, and no mitigation is required.

c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage points.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less than Significant. During project construction, views in the project area along H Street and from north of the project site would be modified as a result of the presence of construction equipment and activities. However, the appearance of construction equipment and activities would be temporary, and once construction activities are complete, the project site would appear similar to existing conditions. Additionally, the project proposes to remove and rebuild the existing cinder block wall along H Street which would provide additional screening of electrical equipment at the site to protect public and nearby residential views of the project area. As noted previously, the replacement wall would undergo design review with the City of Sacramento prior to wall construction. The project site is currently zoned as C-3 – Central Business District Zone, which includes intense residential, retail, commercial, and office developments within the City. The project does not propose any zoning changes and project uses would be consistent with existing site uses. Therefore, the project would not conflict with any zoning or scenic quality regulations. Because impacts would be largely limited to construction, and the project would be minimally visible during operation, the project would have a less-than**significant** impact related to a scenic quality, and no mitigation is required.

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less than Significant. Construction activities would occur during daylight hours and would not require nighttime lighting. Construction equipment is unlikely to have reflective surfaces, other than what is required for safety purposes, and would not be a substantial source of glare in the area. During project operation, exterior lighting would be present at the site for security purposes but would be angled downward and away from nearby multifamily residences. Lighting at the project site as a result of project implementation would be similar to existing security lighting present at the project site. This minimal security lighting is not anticipated to adversely affect nighttime view in the project area. Therefore, the project would have a *less-than-significant* impact related to light and glare, and no mitigation is required.



November 2020

3.2 Agriculture and Forestry Resources

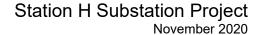
	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
II.	Agriculture and Forest Resources.				_
refe Cal farr effe Pro the	etermining whether impacts to agricultural resources are to the California Agricultural Land Evaluation and Site of the California Agricultural Land Evaluation and Site of Information Department of Conservation as an optional model of Information In determining whether impacts to forest resource focts, lead agencies may refer to information compiled by tection regarding the state's inventory of forest land, included by the California Air Resources Board.	Assessment M I to use in asse s, including tin the California I uding the Fore	odel (1997, as upo essing impacts on a berland, are signif Department of Fore st and Range Asse	lated) prepare agriculture and icant environn estry and Fire essment Projec	d by the l nental ct and
Wo	uld the project:				
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?				\boxtimes
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?				

3.2.1 Environmental Setting

The project site is located in a highly developed, urban area of downtown Sacramento, and the project site is identified as urban and built-up land by the California Department of Conservation's (DOC's) Farmland Mapping and Monitoring Program (FMMP) (DOC 2017). No agricultural land or operations are located on or adjacent to the project site.

No portions of the project site or adjacent parcels are held under Williamson Act contracts (DOC 2015).

There are no areas either within or adjacent to the project site that are zoned as forestland, timberland, or Timberland Production Zone (City of Sacramento 2019).





3.2.2 Discussion

a-e) Would the project 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 uses; conflict with existing zoning for agricultural use, or a Williamson Act contract; 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)); result in the loss of forest land or conversion of forest land to non-forest use; or 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?

No Impact. The project site does not contain any lands designated as Important Farmland (i.e., Prime Farmland, Unique Farmland, or Farmland of Statewide Importance) or zoned as forest land or timberland. As noted above, there are no active agricultural operations within or near the project site, and there are no Williamson Act contracts associated with the project site. No existing agricultural or timber-harvest uses are located on or near the project site. Therefore, the project would have **no impact** on agriculture or forest land, and no mitigation is required.



November 2020

3.3 Air Quality

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
III.	Air Quality.				
	ere available, the significance criteria established by the lution control district may be relied on to make the follow			nent district or a	air
	significance criteria established by the applicable air rict available to rely on for significance determinations?		Yes	□N	0
Wo	ould the project:				
a)	Conflict with or obstruct implementation of the applicable air quality plan?		\boxtimes		
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?				

3.3.1 Environmental Setting

The U.S. Environmental Protection Agency (EPA) has established National Ambient Air Quality Standards (NAAQS) for six criteria air pollutants, which are known to be harmful to human health and the environment. These pollutants are: carbon monoxide (CO), lead (Pb), nitrogen dioxide (NO₂), ozone (O₃), particulate matter (which is categorized into particulate matter less than 10 microns in diameter [PM₁₀] and particulate matter less than 2.5 microns in diameter [PM_{2.5}]), and sulfur dioxide (SO₂). The State of California has also established the California Ambient Air Quality Standards (CAAQS) for these six pollutants, as well as sulfates, hydrogen sulfide (H₂S), vinyl chloride, and visibility-reducing particles. NAAQS and CAAQS were established to protect the public with a margin of safety, from adverse health impacts caused by exposure to air pollution. A brief description of the source and health effects of criteria air pollutants is provided below in Table 3.3-1.



Station H Substation Project November 2020

Table 3.3-1 Criteria Air Pollutants

Pollutant	Sources	Effects
Ozone	Ozone is a secondary air pollutant produced in the atmosphere through a complex series of photochemical reactions involving reactive organic gases (ROG), also sometimes referred to as volatile organic compounds by some regulating agencies) and nitrogen oxides (NOx). The main sources of ROG and NOx, often referred to as ozone precursors, are products of combustion processes (including motor vehicle engines) and the evaporation of solvents, paints, and fuels.	Ozone causes eye irritation, airway constriction, and shortness of breath and can aggravate existing respiratory diseases such as asthma, bronchitis, and emphysema.
Carbon monoxide	CO is usually formed as the result of the incomplete combustion of fuels. The single largest source of CO is motor vehicle engines; the highest emissions occur during low travel speeds, stop-and-go driving, cold starts, and hard acceleration.	Exposure to high concentrations of CO reduces the oxygen-carrying capacity of the blood and can cause headaches, nausea, dizziness, and fatigue; impair central nervous system function; and induce angina (chest pain) in persons with serious heart disease. Very high levels of CO can be fatal.
Particulate matter	Some sources of particulate matter, such as wood burning in fireplaces, demolition, and construction activities, are more local in nature, while others, such as vehicular traffic, have a more regional effect.	Scientific studies have suggested links between fine particulate matter and numerous health problems, including asthma, bronchitis, and acute and chronic respiratory symptoms, such as shortness of breath and painful breathing. Recent studies have shown an association between morbidity and mortality and daily concentrations of particulate matter in the air.
Nitrogen dioxide	NO ₂ is a reddish-brown gas that is a by- product of combustion processes. Automobiles and industrial operations are the main sources of NO ₂ .	Aside from its contribution to ozone formation, NO ₂ can increase the risk of acute and chronic respiratory disease and reduce visibility.
Sulfur dioxide	SO ₂ is a combustion product of sulfur or sulfur- containing fuels such as coal and diesel.	SO ₂ is also a precursor to the formation of particulate matter, atmospheric sulfate, and atmospheric sulfuric acid formation that could precipitate downwind as acid rain.
Lead	Leaded gasoline, lead-based paint, smelters (metal refineries), and the manufacture of lead storage batteries have been the primary sources of lead released into the atmosphere, with lead levels in the air decreasing substantially since leaded gasoline was eliminated in the United States.	Lead has a range of adverse neurotoxic health effects.

Sources: EPA 2019

Notes: CO=carbon monoxide; NO₂= nitrogen dioxide; NO_x=nitrogen oxides; ROG-=reactive organic gases;

SO₂=sulfur dioxide



November 2020

The project site is located in Sacramento County which is within the Sacramento Valley Air Basin (SVAB). The SVAB encompasses Butte, Colusa, Glenn, Tehama, Shasta, Yolo, Sacramento, Yuba, and Sutter Counties and parts of Placer, El Dorado, and Solano Counties. The SVAB is bounded on the north and west by the Coast Ranges, on the east by the southern portion of the Cascade Range and the northern portion of the Sierra Nevada, and on the south by the San Joaquin Valley Air Basin. Sacramento County is currently designated as nonattainment for both the federal and State ozone standards, the federal PM_{2.5} standard, and the State PM₁₀ standard. The region is designated as in attainment or unclassifiable for all other federal and State ambient air quality standards. (CARB 2019).

The Sacramento Metropolitan Air Quality Management District (SMAQMD) is the local agency responsible for air quality planning and development of the air quality plan in the project area. SMAQMD maintains an updated plan for achieving the State and federal ozone standards that was updated and approved by the SMAQMD Board and the California Air Resources Board (CARB) in 2017. There are currently no plans available for achieving the federal PM_{2.5} or State PM₁₀ standards. The air quality plan establishes the strategies used to achieve compliance with the NAAQS and California Ambient Air Quality Standard (CAAQS) in all areas within SMAQMD's jurisdiction. SMAQMD develops rules and regulations and emission reduction programs to control emissions of criteria air pollutants, ozone precursors (oxides of nitrogen [NOx] and reactive organic gases [ROGs]), toxic air contaminants (TACs), and odors within its jurisdiction.

SMAQMD published the *Guide to Air Quality Assessment in Sacramento County,* which provides air quality guidance when preparing CEQA documents. This document was last updated in April 2020. SMAQMD's guide establishes thresholds of significance for criteria air pollutants that SMAQMD recommends using when evaluating air quality impacts in Sacramento County. CEQA-related air quality thresholds of significance are tied to achieving or maintaining attainment designation with the NAAQS and CAAQS, which are scientifically substantiated, numerical concentrations of criteria air pollutants considered to be protective of human health. As such, for the purposes of this project, the following thresholds of significance are used to determine if project-generated emissions would produce a significant localized and/or regional air quality impact such that human health would be adversely affected.

Per SMAQMD recommendations, air quality impacts are considered significant if the project would result in any of the following:

- Construction-generated emissions of NO_x exceeding 85 pounds per day (lbs/day), PM₁₀ exceeding 80 lbs/day or 14.6 tons per year (tpy), or PM_{2.5} exceeding 82 lbs/day or 15 tpy;
- Operational emissions of ROG exceeding 65 lb/day, NO_x exceeding 65 lb/day, PM₁₀ exceeding 80 lb/day or 14.6 tons per year (tpy), or PM_{2.5} exceeding 82 lb/day or 15 tpy;



November 2020

- CO emissions that would violate or contribute substantially to concentrations that exceed the 1-hour CAAQS of 20 parts per million (ppm) or the 8-hour CAAQS of 9 ppm during construction and operations;
- Expose any off-site sensitive receptor to a substantial incremental increase in TAC emissions that exceed 10 in one million for carcinogenic risk (i.e., the risk of contracting cancer) and/or a noncarcinogenic hazard index of 1.0 or greater; or
- Create objectional odors affecting a substantial number of people.

In addition to these thresholds, all SMAQMD-recommended best management practices (BMPs) and use of Best Available Control Technology (BACT) shall be implemented to minimize emission of PM₁₀ and PM_{2.5}. Without the application of BMPs and BACT, the threshold for PM₁₀ and PM_{2.5} during construction and operations is zero pounds per day.

3.3.2 Discussion

a) Conflict with or obstruct implementation of the applicable air quality plan?

Less than Significant with Mitigation Incorporated. As discussed previously, SMAQMD developed thresholds of significance for air quality impacts in consideration of achieving attainment for the NAAQS and CAAQS, which represent concentration limits of criteria air pollutants needed to adequately protect human health. Operational activities associated with the project would include only occasional maintenance and repair similar to the current operation of Station A. Operational emissions from the project would be negligible and similar, if not less, than existing conditions. The project does not include any land uses or operational emission sources that would result in substantial increases in operational vehicle trips. Thus, long-term operational emissions of criteria air pollutants and precursors were not estimated. Long-term operational emissions would not violate or substantially contribute to an existing or projected air quality violation or expose sensitive receptors to substantial pollutant concentrations such that adverse health impacts would occur. Therefore, the project's contribution to operational criteria pollutants and precursors would not contribute to the exceedance of the NAAQS or CAAQS in the County nor result in greater health impacts compared to existing conditions. The project would be consistent with all applicable air quality plans for which these thresholds of significance were developed to support.

Construction activities would result in temporary generation and emissions of criteria air pollutants and precursors. Construction-related emissions were estimated using the California Emissions Estimator Model (CalEEMod) Version 2016.3.2 computer program in accordance with recommendations by SMAQMD and other air districts (CAPCOA 2016). Modeling was based on project-specific information, where available; reasonable assumptions based on typical construction activities; and default values in CalEEMod that are based on the project's location and land use type.



November 2020

Decommission of Station A is anticipated to occur beginning in the second half of 2022 and finishing in early 2023; however, this action would not result in any earth moving activity as part of the project. Trenching, installation of equipment, and construction of Station H is anticipated to occur over a 12-month period commencing in early 2023 and completed in 2024.

Construction-related activities would result in project-generated emissions of ROG, NOx, PM₁₀, and PM_{2.5} from construction activities (e.g., site preparation, trenching, conduit duct bank installation), off-road equipment, material delivery, and worker commute trips. Fugitive dust emissions of PM₁₀ and PM_{2.5} are associated primarily with site preparation and trenching, and vary as a function of soil silt content, soil moisture, wind speed, acreage of disturbance, and vehicle miles traveled on and off the site. Emissions of ozone precursors, ROG and NOx, are associated primarily with construction equipment and onroad mobile exhaust. Paving results in off-gas emissions of ROG. Construction activities associated with the project would likely require the use of forklifts, cranes, excavators, rubber tiered dozers, paving equipment, rollers, concrete trucks, and generators, as well as other diesel-fueled equipment as necessary. Although exact construction schedules are not known at this time, construction was assumed to be spread over three phases: excavation, installation of electrical equipment, and construction of Station H.

It should be noted that as construction continues into the future, equipment exhaust emission rates would decrease as newer, more emission-efficient construction equipment replaces older, less efficient equipment. As noted in the project description, the project would adhere to strict daily construction hours to reduce interference with surrounding land uses and traffic patterns to the extent feasible. The construction analysis assumes that all construction equipment would be used for eight hours each day. Due to the strict timeframe during which project construction activities would occur, however, the actual daily usage of each construction equipment is expected to be less than eight hours. As such, reported emissions represent a conservative estimate of maximum daily emissions during the construction period. For assumptions and modeling inputs, refer to Appendix A.

Table 3.3-2 summarizes the modeled maximum daily emissions for all pollutants and annual emissions for particulate matter from construction activity without the application of BMPs and BACTs.

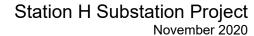




Table 3.3-2 Summary of Unmitigated Emissions Generated During Project Construction by Year

	Maxi	Maximum Daily Emissions (lbs/day)			Annual Emissio (tons/year)	
•	ROG	NOx	PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}
2023	2	20	7	4	<1	<1
2024	2	11	1	<1	<1	<1
SMAQMD Threshold of Significance ^a	None	85	0	0	14.6	15
Exceeds Threshold?	No	No	Yes	Yes	No	No

Notes:

ROG = reactive organic gases; NO_X = oxides of nitrogen; PM_{10} = respirable particulate matter; $PM_{2.5}$ = fine particulate matter; $PM_{$

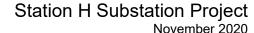
Maximum daily emissions represent overlapping construction phases. See Appendix A for details. Source: Modeled by Ascent Environmental in 2020

As shown in Table 3.3-2, project construction would not generate emissions in excess of the SMAQMD thresholds for ROG and NO_X, nor would it result in a significant increase in annual emissions of PM₁₀ and PM_{2.5}. However, the project, without the application of BMPs and BACT, would generate daily emissions of PM₁₀ and PM_{2.5} in excess of the SMAQMD thresholds during construction activities. Therefore, the impact of construction activities would be potentially significant.

Mitigation Measure 3.3-1: Implement SMAQMD Basic Construction Emission Control Practices.

During construction, the contractor shall comply with and implement SMAQMD's Basic Construction Emission Control Practices, which includes SMAQMD-recommended BMPs and BACT, for controlling fugitive dust emissions. Measures to be implemented during construction include the following:

- Water all exposed surfaces at least two times daily. Exposed surfaces include, but are not limited to, soil piles, graded areas, unpaved parking areas, staging areas, and access roads.
- Cover or maintain at least two (2) feet of freeboard space on haul trucks transporting soil, sand, or other loose material on the site. Cover any haul trucks that will be traveling along freeways or major roadways.
- Use wet power vacuum street sweepers to remove any visible track-out mud or dirt onto adjacent public roads at least once a day. Use of dry power sweeping is prohibited.





- Limit vehicle speed on unpaved roads to 15 miles per hour.
- All roadways, driveways, sidewalks, parking lots to be paved should be completed as soon as possible. In addition, building pads should be laid as soon as possible after grading unless seeding or soil binders are used.
- Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes (required by California Code of Regulations Title 13, Sections 2449[d][3] and 2485). Provide clear signage that posts this requirement for workers at the entrances to the site.
- Maintain all construction equipment in proper working condition according to manufacturer's specifications. Equipment will be checked by a certified mechanic and determined to be running in proper condition before it is operated.

Implementation of Mitigation Measure 3.3-1 would be considered application of BMPs and BACT and would result in the project generating emissions less than the SMAQMD thresholds for all pollutants, as shown in Table 3.3-3.

Table 3.3-3 Summary of Mitigated Emissions Generated During Project Construction by Year

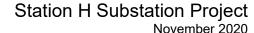
	Maxi	Maximum Daily Emissions (lbs/day)			Annual Emission (tons/year)	
•	ROG	NOx	PM ₁₀	PM _{2.5}	PM ₁₀	PM _{2.5}
2023	2	20	4	3	<1	<1
2024	1	11	1	1	<1	<1
SMAQMD Threshold of Significance	None	85	80	82	14.6	15
Exceeds Threshold?	No	No	No	No	No	No

Notes:

ROG = reactive organic gases; NO_X = oxides of nitrogen; PM_{10} = respirable particulate matter; $PM_{2.5}$ = fine particulate matter; $PM_{$

Source: Modeled by Ascent Environmental in 2020

With implementation of Mitigation Measure 3.3-1, short-term construction emissions of criteria air pollutants and precursors would not violate or substantially contribute to an existing or projected air quality violation or expose sensitive receptors to substantial pollutant concentrations such that adverse health impacts would occur. As discussed previously, SMAQMD developed these thresholds in consideration of achieving attainment for the NAAQS and CAAQS, which represent concentration limits of criteria air pollutants needed to adequately protect human health. Therefore, implementation of Mitigation Measure 3.3-1 would reduce the impact of emissions generated during construction activities to a *less-than-significant* level.





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?

Less than Significant with Mitigation Incorporated. Construction of the project would result in emissions of criteria air pollutants, while project operational emissions would be negligible. Sacramento County is currently in nonattainment for federal and State ozone, State PM₁₀, and federal PM_{2.5}. Ozone impacts are the result of cumulative emissions from numerous sources in the region and transport from outside the region. Ozone is formed in chemical reactions involving NO_X, ROG, and sunlight. Particulate matter also has the potential to cause significant local problems during periods of dry conditions accompanied by high winds, and during periods of heavy earth disturbing activities. Particulate matter (PM₁₀ and PM_{2.5}) may have cumulative local impacts if, for example, several unrelated grading or earth moving activities are underway simultaneously at nearby sites. This impact would be potentially significant.

Implementation of Mitigation Measure 3.3-1 (above) would reduce project construction emissions and ensure that project related emissions of NOx, ROG, PM₁₀, and PM_{2.5} would not exceed SMAQMD thresholds during construction activities. The project would implement SMAQMD BMPs and BACT to reduce fugitive dust emissions to the extent feasible. Construction emissions would be temporary and would not be generated following the completion of project construction. No long-term emissions would be generated during project operations. Therefore, with mitigation, short-term project-generated construction emissions and long-term operational emissions would not be cumulatively considerable, and impacts would be *less than significant*.

c) Expose sensitive receptors to substantial pollutant concentrations?

Less than Significant. Sensitive receptors are generally considered to include those land uses where exposure to pollutants could result in health-related risks to sensitive individuals, such as children or the elderly. Residential dwellings, schools, hospitals, playgrounds, and similar facilities are of primary concern because of the presence of individuals particularly sensitive to pollutants and the potential for increased and prolonged exposure of individuals to pollutants.

Construction-related activities would result in temporary, intermittent emissions of diesel particulate matter (PM) from the exhaust of off-road, heavy-duty diesel equipment. For construction-activity, diesel PM is the primary TAC of concern. The potential cancer risk from inhaling diesel PM outweighs the potential for all other diesel PM—related health impacts (i.e. noncancer chronic risk, short-term acute risk) and health impacts from other TACs (CARB 2003). Diesel PM is highly dispersive and can be estimated to decrease by approximately 70 percent at a distance of 500 feet from the source (Zhu et. al 2002).



November 2020

The project is located adjacent to sensitive receptors including the Mercy Housing Community to the east. Construction would occur over approximately 12 months. In addition, SMUD would implement Mitigation Measure 3.3-1 to reduce emissions. Because the exposure duration would be substantially shorter (3 percent) than the exposure period used for typical health risk calculations (i.e., 30 years), the project's short-term construction activities would not expose sensitive receptors to prolonged TAC concentrations.

Based on emission modeling, maximum daily emissions of exhaust PM₁₀ would not exceed one (1) lb/day during construction and would be further reduced with the application of Mitigation Measure 3.3-1. As noted previously, these estimates represent a conservative analysis and would only occur nearby each sensitive receptor during a short period of time. The project would not generate emissions during operations. This impact would be *less than significant*, and no mitigation is required.

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less than Significant. Minor odors from the use of heavy-duty diesel equipment and the laying of asphalt during project construction activities would be intermittent and temporary and would dissipate rapidly from the source within an increase in distance. Therefore, project construction is not anticipated to result in an odor-related impact. Project operation would not include activities that typically generate odors, such as wastewater treatment facilities, sanitary landfills, composting facilities, petroleum refineries, chemical manufacturing plants, or food processing facilities. Activities associated with project operation would be limited and would not generate odors. Implementation of the project would not result in exposure of a substantial number of people to objectionable odors. Thus, this impact would be *less than significant*, and no mitigation is required.



3.4 Biological Resources

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
IV.	Biological Resources.				
Wo	ould the project:				
a)	Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?				
b)	Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?				
c)	Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				
d)	Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?				
e)	Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?				
f)	Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				

3.4.1 Environmental Setting

This section describes biological resources on the project site and evaluates potential impacts to these resources as a result of project implementation. To determine the biological resources that may be subject to impacts from the project, Ascent biologists reviewed several existing data sources including:

- California Natural Diversity Database (CNDDB) (CDFW 2020);
- California Native Plant Society (CNPS) Online Inventory of Rare and Endangered Plants (CNPS 2020);



November 2020

- U.S. Fish and Wildlife Service (USFWS) Information, Planning, and Consultation System (IPaC) (USFWS 2020a); and
- USFWS National Wetlands Inventory (USFWS 2020b).

Vegetation and Habitat Types

The project site is located in a highly developed area with residential and commercial land uses around it. The project site is predominantly flat with approximately one foot in elevation change across the site. There is no vegetation within the project site as it is an active electrical substation. Vegetation adjacent to the project site consists of street trees and sidewalk landscaping along H Street. Trees along H Street include sweetgum (*Liquidambar styraciflua*), box elder (*Acer negundo*), and flowering almond (*Prunus* spp.). Sidewalk landscaping areas are covered with periwinkle (Vinca minor).

Special-status Species

Special-status species are plants and animals that are legally protected under the Endangered Species Act (ESA), California Endangered Species Act (CESA), the California Fish and Game Code, or local plans, policies, and regulations or that are otherwise considered sensitive by federal, state, or local resource conservation agencies. For this IS, special-status species are defined as:

- Listed or proposed for listing as threatened or endangered under the federal ESA.
- Designated as a candidate for listing as threatened or endangered under ESA.
- Listed, proposed for listing, or a candidate for listing as threatened or endangered under CESA.
- Listed as fully protected under the California Fish and Game Code.
- Animals identified by California Department of Fish and Wildlife (CDFW) as species of special concern.
- Plants considered by CDFW to be "rare, threatened or endangered in California"
 (California Rare Plant Ranks [CRPR] of 1A, presumed extinct in California; 1B,
 considered rare or endangered in California and elsewhere; 2A, presumed extinct in
 California, but more common elsewhere; and 2B, considered rare or endangered in
 California but more common elsewhere. While these rankings do not afford the same
 type of legal protection as ESA or CESA, the rarity of these species requires special
 consideration under CEQA.



November 2020

- Considered a locally significant species, that is, a species that is not rare from a statewide perspective but is rare or uncommon in a local context such as within a county or region (CEQA Guidelines Section 15125 [c]) or is so designated in local or regional plans, policies, or ordinances (CEQA Guidelines, Appendix G).
- taxa (i.e., taxonomic categories or groups) that meet the criteria for listing, even if not currently included on any list, as described in California Code of Regulations (CCR) Section 15380 of the State CEQA Guidelines;

Based on a review of existing data sources (CNDDB 2020, CNPS 2020, USFWS 2020a), 26 special-status wildlife species and 18 special-status plant species have potential to occur in the project area. Species ranges and habitat requirements were examined for these species. The project site does not contain habitat suitable for any of the species and/or is not within the range of the species. Therefore, it was determined that no special-status plant species are expected to occur on the project site. Refer to Appendix B for additional detail. The project site, however, is adjacent to potentially suitable habitat (landscape trees) for Swainson's hawk (*Buteo swainsoni*), white-tailed kite (*Elanus leucurus*) and native bird species that do not have a special-status designation but are afforded protection under state law. No other special-status wildlife is expected to occur on the project site due to lack of habitat suitable for those species.

3.4.2 Discussion

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?

Less than Significant with Mitigation Incorporated. Ground disturbance and staging associated with the project is located within developed land and as previously explained, special-status plants are not expected to occur on the project site. Therefore, the project would have no impact on special-status plant species.

Similarly, special-status wildlife species are not expected to occur on the project site. However, habitat for Swainson's hawk, white-tailed kite, and native bird species protected under state law is present on and adjacent to the site. Destruction of any bird nest or take of the nest or eggs of any bird is a violation of Section 3503 of the California Fish and Game Code. Project construction could include removal of one of the landscape trees and therefore has the potential to result in direct removal of bird nests. Additionally, construction activities occurring during the nesting season (between approximately February 1 and August 31), such as demolition, ground disturbance, and presence of construction equipment and crews, could generate noise and visual stimuli that may result in disturbance to active bird nests, if present, potentially resulting in nest abandonment. Nest abandonment may result in death of chicks or loss of eggs if the adult bird does not return



November 2020

to the nest. While loss of nests of common migratory bird or raptor species (e.g., mourning dove, house sparrow, and Cooper's hawk) would not be considered a significant impact because it would not result in a substantial effect on their populations locally or regionally, cause any population to drop below self-sustaining levels, or result in a trend toward these species being listed as threatened or endangered, destruction of any migratory bird nest is a violation of the Migratory Bird Treaty Act (MBTA) and Section 3503 of the California Fish and Game Code.

Special-Status and Common Nesting Birds

Although the project site contains trees that could provide nesting sites for Swainson's hawk and white-tailed kite, foraging habitat is limited near the project site and therefore nesting potential is somewhat reduced by a lack of proximate foraging habitat. White-tailed kites generally nest within 0.5 mile of foraging habitat and are rarely found away from their preferred foraging habitats, which include alfalfa and other hay crops, irrigated pastures, sugar beets, and tomatoes (Erichsen et al. 1994, Dunk 1995, CDFW 2005). Swainson's hawk nest sites are generally located within approximately two miles of suitable foraging habitat, which consists of alfalfa, disked fields, fallow fields, dry-land pasture, beets, tomatoes, irrigated pasture, grains, other row crops, and uncultivated grasslands (Estep 1989, Estep 2009). While Swainson's hawks may forage 10 miles or more from their nest sites, foraging habitat within 1 mile of the nest if of primary importance and reproductive success decreases for Swainson's hawks as distance from foraging habitat increases (Estep 1989, England et al. 1995 in Estep 2009, England et al. 1997).

There are seven CNDDB records of nesting Swainson's hawks (*Buteo swainsoni*) within 1.5 miles of the project site (CDFW 2020). Three of these occurrences are within the riparian area along the Sacramento River to the west of the project (nearest is 0.81 mile to the southwest of the project site), two are within the riparian corridor of the American River to the north of the project (nearest is 1.45 miles to the north of the project site), and two occurrences are within the urban grid of midtown Sacramento (nearest is 1.08 miles to the east of the project site). While the project is highly developed, Swainson's hawks are known to nest in urban settings in some locations. Although the project site is within 10 miles of known Swainson's hawk nesting locations, because of its urban nature, the project site does not contain suitable foraging habitat for Swainson's hawk (e.g., row crops, field crops, pasture).

The nearest CNDDB record for white-tailed kite (*Elanus leucurus*) is approximately 1.5 miles to the northeast, along the north bank of the American River. This species is known to nest in riparian areas and within urban settings.

As noted above, there are no known occurrences for either Swainson's Hawk or whitetailed kite, and the site also does not present foraging habitat for either species. However, due to the presence of several mature trees in the area and based on documented occurrences of these two species nesting within urban areas, there is a potential that either species could nest near or adjacent to the project site. If so, there is a potential that



November 2020

construction activities at the project site could result in nest disturbance, which would be considered a significant impact.

In addition to providing potential nesting sites for Swainson's hawk and white-tailed kite, mature trees in the project adjacent area could support nests of common raptors. The common raptors that may nest within the project site include: Cooper's hawk (*Accipiter cooperii*), red-tailed hawk (*Buteo jamaicensis*), red-shouldered hawk (*Buteo lineatus*), and great horned owl (*Bubo virginianus*). In addition to common raptors, trees adjacent to the project site may also support other common nesting birds. The nests of common raptors and other common birds are protected under Sections 3503 and 3503.5 of California Fish and Game Code.

Mitigation Measure 3.4-1: Avoid disturbance of nesting birds

If construction will occur during the nesting season (between February 1 and August 31), a SMUD project biologist/biological monitor will conduct preconstruction nesting bird surveys to determine if birds are nesting in the work area or within 0.25 mile for Swainson's hawk and 500 feet for all other nesting birds of the project site.

The pre-construction nesting bird surveys will identify on-site bird species and any nest-building behavior. If no nesting Swainson's hawks are found on or within 0.25 mile or if no nesting birds are found on or within 500 feet of the project site during the pre-construction clearance surveys, construction activities may proceed as scheduled.

If pre-nesting behavior is observed, but an active nest of common nesting bird has not yet been established (e.g., courtship displays, but no eggs in a constructed nest), a nesting bird deterrence and removal program will be implemented. Such deterrence methods include removal of previous year's nesting materials and removal of partially completed nests in progress. Once a nest is situated and identified with eggs or young, it is considered to be "active" and the nest cannot be removed until the young have fledged.

If active Swainson's hawk nests are found within the nest survey area, the construction contractor shall avoid impacts on such nests by establishing a no-disturbance buffer around the nest. Monitoring of the nest by a qualified biologist during construction activities shall be required if the activity has the potential to adversely affect the nest. Based on guidance for determining a project's potential for impacting Swainson's hawks (Swainson's hawk Technical Advisory Committee 2000), projects in urban areas have a low risk of adversely affecting nests greater than 600 feet from project activities. Therefore, 600 feet is anticipated to be the adequate buffer size for protecting nesting Swainson's hawks from disturbances associated with the proposed project. However, the qualified biologist shall consult with the California Department of Fish and Wildlife to confirm the adequacy of the





no-disturbance buffer and/or if the buffer is reduced based on the biologist professional judgement.

If an active nest of common bird species is found in or within 500 feet of the project site during construction, a "No Construction" buffer zone will be established around the active nest (usually a minimum radius of 50 feet for passerine birds and 500 feet for raptors) to minimize the potential for disturbance of the nesting activity. The project biologist/biological monitor will determine and flag the appropriate buffer size required, based on the species, specific situation, tolerances of the species, and the nest location. Project activities will resume in the buffer area when the project biologist/biological monitor has determined that the nest(s) is (are) no longer active or the biologist has determined that with implementation of an appropriate buffer, work activities would not disturb the bird's nesting behavior.

If special-status bird species are found nesting on or within 500 feet of the project site, the project biologist/biological monitor shall notify SMUD's project manager to notify CDFW or USFWS, as appropriate, within 24 hours of first nesting observation.

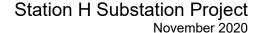
Implementation of Mitigation Measure 3.4-1 would minimize impacts to special-status bird species by requiring pre-construction nesting surveys for nesting birds, and no-disturbance buffers around active nests. With implementation of Mitigation Measure 3.4-1, potential impacts to nesting birds would be reduced to a *less-than-significant* level.

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Wildlife or the U.S. Fish and Wildlife Service?

No Impact. The project site is located within currently developed areas, and landscaped vegetation and does not contain sensitive natural communities (e.g., riparian habitat, elderberry savanna, and northern hardpan vernal pools). **No impact** on sensitive natural communities would occur, and no mitigation is required.

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact. The project site does not contain any wetland, stream, or other aquatic habitat that could be considered jurisdictional waters of the United States or state. All project activities would take place within previously developed areas. Therefore, **no impact** to wetlands or other waters of the United States or state would occur, and no mitigation is required.





d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

No Impact. The project site is located within an urban setting (see Figure 2-2) within developed land cover and landscaped vegetation. This urban and disturbed setting does not support native wildlife nursery sites. The project would not alter any existing wildlife corridor and would not interfere with the movement of migratory fish or wildlife species. Therefore, **no impact** on the movement of native resident or migratory fish or wildlife species, movement corridors, or native wildlife nursery sites would occur, and no mitigation is required.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less than Significant. The project site is located primarily within an urban area with limited landscape vegetation. During project construction, including removal and reconstruction of the masonry wall along H Street, construction activities may require work within the sidewalk area of H Street and removal of existing landscape trees.

Section 12.56.080(E) of the Sacramento City Code requires that before a public utility installs or performs maintenance on infrastructure that may cause injury to a city tree or private protected tree, the utility shall submit a plan for review and approval by the City's Public Works Director. While this provision essentially exempts SMUD from the City's tree ordinance, SMUD prefers to coordinate with the City by providing tree work plans to the City that may be approved via email. Because SMUD would comply with Sacramento City Code Section 12.56080(E) requiring approval from the City's Public Works Director prior to any work that may cause injury or removal of city and/or protected private trees, this impact would be less than significant, and no mitigation is required.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. The project site is not located within the plan area of an adopted habitat conservation plan, natural community conservation plan or other applicable and approved habitat conservation plan. As a result, it would not conflict with the provisions of any such plan. Therefore, the project would result in **no impact**, and no mitigation is required.



3.5 Cultural Resources

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
٧.	Cultural Resources.				
Would the project:					
a)	Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5?	\boxtimes			
b)	Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	\boxtimes			
c)	Disturb any human remains, including those interred outside of dedicated cemeteries?				

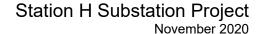
3.5.1 Environmental Setting

A records search of the project site and a 1/8-mile radius was conducted by the North Central Information Center (NCIC), at California State University, Sacramento (SAC-20-117) in August 2020. The records search identified three resources within the project site and 15 resources within a 1/8-mile radius of the project site. One such resources is the historic Station A building, which is a California Historical Landmark (No. 633-2). The building was determined to be eligible for the National Register of Historic Places in 1999, and thus also was listed on the California Register of Historic Resources.

3.5.2 Discussion

a-c) Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5? Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5? Disturb any human remains, including those interred outside of formal cemeteries?

Potentially Significant. The records search identified known archaeological and historic resources on the project site or within 1/8-mile of the project site (NCIC 2020). Therefore, impacts related to the project could be **potentially significant**. These issues will be analyzed further in the EIR.





3.6 Energy

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact		
VI. Energy. Would the project:							
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?						

3.6.1 Environmental Setting

California relies on a regional power system composed of a diverse mix of natural gas, petroleum, renewable, hydroelectric, and nuclear generation resources.

- Petroleum: Petroleum products (gasoline, diesel, jet fuel) are consumed almost exclusively by the transportation sector, and account for almost 99 percent of the energy used in California by the transportation sector, with the rest provided by ethanol, natural gas, and electricity (Bureau of Transportation Statistics 2015). Between January 2007 and May 2016, an average of approximately 672 billion gallons of gasoline were purchased in California (California State Board of Equalization 2016). Gasoline and diesel fuel sold in California for motor vehicles is refined in California to meet specific formulations required by the California Air Resources Board (CARB) (U.S. Energy Information Administration [EIA] 2018).
- Natural Gas: Almost two-thirds of California households use natural gas for home heating, and about half of California's utility-scale net electricity generation is fueled by natural gas (EIA 2018).
- Electricity and Renewables: The California Energy Commission (CEC) estimates
 that 34 percent of California's retail electricity sales in 2018 will be provided by RPSeligible renewable resources (CEC 2018). California regulations require that electricity
 consist of 33 percent renewables by 2020 and 50 percent renewables by 2030 for all
 electricity retailers in the state.
- Alternative Fuels: Conventional gasoline and diesel may be replaced (depending on the capability of the vehicle) with many alternative transportation fuels (e.g., biodiesel, hydrogen, electricity, and others). Use of alternative fuels is encouraged through various statewide regulations and plans (e.g., Low Carbon Fuel Standard, Assembly Bill [AB] 32 Scoping Plan).



3.6.2 Discussion

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

Less than Significant. Energy would be consumed during project construction to operate and maintain construction equipment, transport construction materials, and for worker commutes. Levels of construction-related energy consumption by the project were calculated using the California Emissions Estimator Model Version 2016.3.2 and from fuel consumption factors in the EMFAC 2011 models (see Appendix A for detailed calculations). An estimated 3,600 gallons of gasoline and 28,000 gallons of diesel would be consumed during project construction, accounting for both onsite equipment use and offsite vehicle travel. This one-time energy expenditure required to construct the project would be nonrecoverable. The energy needs for project construction would be temporary and would not require additional capacity or increase peak or base period demands for electricity or other forms of energy.

The project would generate minimal vehicle trips during operation associated with ongoing maintenance of the facility, which would not be notably greater than the existing vehicle trips accessing the project site. These maintenance trips would be essential to ensuring that Station H be functional to supply energy to customers within the SMUD service area. Therefore, the project would not result in an inefficient, wasteful, or unnecessary consumption of energy resources. This impact would be *less than significant*, and no mitigation is required.

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

No Impact. As discussed above, the project would not result in inefficient, wasteful, or unnecessary consumption of energy resources. Furthermore, the project includes the replacement of existing electrical equipment and would result in increased efficiency in transmitting energy between source and end destinations. Thus, the project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. The project would have **no impact**, and no mitigation is required.



3.7 Geology and Soils

		ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
VII.	Geo	ology and Soils. Would the project:				
a)	adv	ectly or indirectly cause potential substantial erse effects, including the risk of loss, injury, or th involving:				
	i)	Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to California Geological Survey Special Publication 42.)				
	ii)	Strong seismic ground shaking?				
	iii)	Seismic-related ground failure, including liquefaction?				
	iv)	Landslides?				\boxtimes
b)		sult in substantial soil erosion or the loss of soil?			\boxtimes	
c)	or tl proj land	located on a geologic unit or soil that is unstable, hat would become unstable as a result of the lect, and potentially result in on- or off-site dslide, lateral spreading, subsidence, liquefaction, collapse?				
d)	1-B crea	located on expansive soil, as defined in Table 18- of the Uniform Building Code (1994, as updated), ating substantial direct or indirect risks to life or perty?				
e)	use sys	ve soils incapable of adequately supporting the of septic tanks or alternative wastewater disposal tems where sewers are not available for the posal of wastewater?				
f)		ectly or indirectly destroy a unique paleontological ource or site or unique geologic feature?				

3.7.1 Environmental Setting

Regional and Local Geology

As noted previously, the project site is located in the downtown area of the city of Sacramento, within the southern portion of the Sacramento Valley. The Sacramento Valley represents the northern portion of the Great Valley geomorphic province of California, which is bordered on the east by the foothills of the Sierra Nevada geomorphic province and on the west by the Coast Range geomorphic province. The Great Valley is an asymmetrical trough approximately 400 miles long and 40 miles wide forming the broad valley along the axis of California. Erosion of the Coast Range and the Sierra



November 2020

Nevada has generated alluvial, overbank, and localized lacustrine sediments as thick as 50,000 feet in areas of the Great Valley.

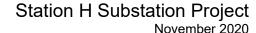
The project site, which is located less than 0.5 mile east of the Sacramento River and less than 2 miles south of the American River, is underlain by Holocene Alluvium (Qa), described as levee and channel deposits, including unweathered gravel, sand, and silt deposited by present-day stream and river systems that drain the Coast Ranges, Klamath Mountains, and Sierra Nevada (Wagner, et al. 1981).

Seismicity

The Great Valley is bounded on the west by the Great Valley fault zone and the Coast Ranges and on the east by the Foothills fault zone and the Sierra Nevada. Relatively few faults in the Great Valley have been active during the last 11,700 years. The closest faults to the project site with evidence of displacement during Holocene time are the Dunnigan Hills Fault (approximately 23 miles to the northwest) and the Cleveland Hills Fault (approximately 60 miles to the north). In general, active faults are located along the western margin of the Central Valley (e.g., the Great Valley Fault) and within the Coast Ranges (Jennings 1994). There are no Alquist-Priolo Earthquake Fault Zones within Sacramento County (CGS 2010)

According to the California Geological Survey Earthquake Shaking Potential for California, the Sacramento region is distant from known, active faults and would experience lower levels of shaking less frequently that areas closer to major, active faults. However, very infrequent earthquakes could still cause strong shaking here (CGS 2016). Landslides triggered by seismic events are not expected at the project site due to the site's flat terrain.

Factors determining liquefaction potential are the soil type, the level and duration of seismic ground motions, the type and consistency of soils, and the depth to groundwater. Loose sands, peat deposits, and unconsolidated Holocene-age sediments are the most susceptible to liquefaction, while clayey silts, silty clays, and clays deposited in freshwater environments are generally stable under the influence of seismic ground shaking. The occurrence of liquefaction during an earthquake can potentially cause reduction in or loss of shear strength, seismically induced settlements, formation of boils, or lateral spreading of the liquefied soil. In order for liquefaction of soils due to ground shaking to occur, it is generally understood that subsurface soils must be in a relatively loose state, soils must be saturated, soils must be sand like (e.g. non-plastic or of very low plasticity), and the ground motion is of sufficient intensity to act as a triggering mechanism. The project site is not located in a currently established State of California Seismic Hazard Zone for liquefaction.





Soils

A review of U.S. Natural Resources Conservation Service (NRCS) soil survey data indicates that the project site is composed of urban land (NRCS 2020). This unit consists of areas covered up to 90 percent by impervious surfaces. The soil material under these impervious surfaces may have been altered during construction but are considered to be generally similar to nearby soil units (City of Sacramento 2017). While a site-specific geotechnical study has not yet been conducted for the project site, the City requires that a project-specific geotechnical investigation be submitted prior to development.

Groundwater depths in the project area range from 14 to 33 feet below ground surface (bgs) and occur at approximately 20 feet bgs at the project site (SMUD 2015:85).

Paleontological Resources

The city of Sacramento is not highly sensitive for paleontological resources present in fossil-bearing soils and rock formations as most of the downtown area has been excavated and filled (City of Sacramento 2017).

3.7.2 Discussion

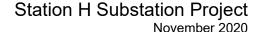
- a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
 - i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? (Refer to California Geological Survey Special Publication 42.)

No Impact. Surface ground rupture along faults is generally limited to a linear zone a few yards wide. There are no Alquist-Priolo Earthquake Fault Zones within Sacramento County (CGS 2010). Consequently, the project is not expected to expose people or structures to adverse effects caused by the rupture of a known fault. There would be **no impact** associated with fault rupture, and no mitigation is required.

ii. Strong seismic ground shaking?

Less than Significant. The project site is located in the Sacramento Valley, which has historically experienced a low level of seismic ground shaking. The California Geological Survey has identified the region as an area of low to moderately low earthquake shaking potential (CGS 2016).

Depending on the strength of groundshaking, it is possible that structures in the area could be damaged during such an event. However, the project would be constructed in a manner consistent with within California Building Code (CBC) Title 24, which identifies specific design requirements to reduce damage from strong seismic ground shaking,





ground failure, landslides, soil erosion, and expansive soils. This impact would be *less than significant,* and no mitigation is required.

iii. Seismic-related ground failure, including liquefaction?

Less than Significant. For the installation of infrastructure improvements and construction of new buildings, SMUD would comply with the CBC, which incorporates seismic engineering and construction parameters designed to protect life and property to the maximum extent practicable. Preliminary project plans include construction on deep piles drilled into stable soils (depths could be up to 55 feet), and replacement of fill material with engineered, compacted fill. While the project site is underlain by younger alluvium that can be prone to liquefaction, the project would include seismic-resistant design to address potential liquefiable soils, appropriate remediation, and other measures in the CBC to protect life and property. While a project-specific geotechnical study has not yet been prepared, it would be required by the City prior to approval of site improvement plans.

Active seismic sources are a relatively long distance away and the project site is located on flat land and has low shaking hazard potential. However, in the unlikely event of a significant earthquake, widespread liquefaction could occur resulting in significant damage. The project would comply with CBC Title 24, which includes specific design requirements to reduce damage from ground failure. The project could include dewatering activities, which would further reduce the potential for ground failure. In addition, emergency shutoffs would be installed to reduce risks involving seismic-related ground failure. Therefore, the potential of adverse effects involving ground failure, including liquefaction is low and this impact would be *less than significant*, and no mitigation is required.

iv. Landslides?

No Impact. The project site is located in a flat area of downtown Sacramento; there is no risk of landslides in such terrain (City of Sacramento 2017:4.6-21). Consequently, the project would not expose people or structures to landslides and there would be **no impact** associated with landslide risk, and no mitigation is required.

b) Result in substantial soil erosion or the loss of topsoil?

Less than Significant. As discussed above, NRCS soil survey data indicate that the project site includes soils that are classified as Urban Land (NRCS 2020). Construction activities would involve grading, excavating, trenching, moving, and filling within the project site or construction staging area. Construction activities would remove and existing concrete and paving and would expose site soils to erosion via wind in the summer months, and to surface water runoff during storm events. Sediment from construction activities could be transported within stormwater runoff and could drain to off-site areas and degrade local water quality.



November 2020

Because the project would not disturb more than one acre of land, it would not be subject to the National Pollutant Discharge Elimination System (NPDES) Statewide construction general NPDES permit for stormwater runoff (Order No. 99 - 08 – DWQ and NPDES No. CAS000002 [Construction General Permit]). While the project would not be subject to the requirements of the Construction General Permit, SMUD generally complies with the City's Grading, Erosion, and Sediment Control Ordinance which requires preparation of erosion and sediment control plans which apply during and post construction.

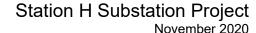
Furthermore, and as noted above, the project would be constructed in accordance with CBC standards. These standards require that appropriate soil and geotechnical reports be prepared and that site-specific engineering design measures, including those related to general site grading, clearing and grubbing, soil stabilization, and general erosion control, be implemented to appropriately minimize potential adverse impacts related to erosion at the infill site. This, coupled with preparation of erosion and sediment control plans, would minimize potential adverse impacts related to erosion and loss of topsoil at the project site. Impacts would be *less than significant*, and no mitigation is required.

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?

Less than Significant. As described previously, there are no slopes within the project site, and therefore there would be no potential for on- or off-site landslide. While the Holocene alluvium that underlies the area can be subject to liquefaction, the site has been developed and includes extensive fill. In addition, the project would comply all building codes and engineering recommendations. Therefore, this impact would be **less than significant**, and no mitigation is required.

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994, as updated), creating substantial direct or indirect risks to life or property?

Less than Significant. Expansive soils shrink and swell as a result of moisture change. These volume changes can result in damage over time to building foundations, underground utilities, and other subsurface facilities and infrastructure if they are not designed and constructed appropriately to resist the damage associated with changing soil conditions. A review of NRCS (2020) soil survey data indicates that the locations where project-related earthmoving activities would occur are composed of soil classified as urban land. Soils within the downtown area primarily consist of imported fill, laid upon native soil (City of Sacramento 2017:4.6-3). The two new 115kV lines that would tie Station H into Station G would be placed in a series of conduits encased in concrete. Trenches associated with underground infrastructure would then be backfilled with a cementitious slurry mixture or compacted aggregate base to the roadway subgrade elevation to reduce the risk of expansive soils. Therefore, this impact would be *less than significant*, and no mitigation is required.





e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

No Impact. The project would not require the use of septic tanks or alternative wastewater disposal systems. Thus, the project would have **no impact** related to soil suitability for use of septic tanks or alternative wastewater disposal systems, and no mitigation is required.

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less than Significant Impact. The downtown area of Sacramento is not considered sensitive for paleontological resources because much of the area has been previously disturbed, excavated, and filled with non-native soil (City of Sacramento 2017:4.6-11). Nonetheless, ground-disturbing activities could result in uncovering currently unknown resources and cause a substantial change in the significance of an undiscovered unique paleontological resource or geologic feature. Compliance with Sacramento General Plan Policy HCR 2.1.16 requires that proper protocols are adhered to if paleontological resources are discovered during excavation or construction. Specifically, these procedures include protocols and criteria for qualifications of personnel, and for survey, research, testing, training, monitoring, cessation and resumption of construction, identification, evaluation, and reporting, as well as compliance with recommendations to address any significant adverse effects where determined by the City to be feasible. Therefore, the policies and implementation programs contained within the General Plan would ensure that impacts to paleontological resources would be *less than significant*, and no mitigation is required.



3.8 Greenhouse Gas Emissions

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
VII	I. Greenhouse Gas Emissions. Would the project:				
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?				

3.8.1 Environmental Setting

Certain gases in the earth's atmosphere, classified as greenhouse gases (GHGs), play a critical role in determining the earth's surface temperature. Solar radiation enters the earth's atmosphere from space. Most solar radiation passes through GHGs; however, infrared radiation is absorbed by these gases. As a result, radiation that otherwise would have escaped back into space is instead "trapped," resulting in a warming of the atmosphere. This phenomenon, known as the greenhouse effect, is responsible for maintaining a habitable climate on earth.

Prominent GHGs contributing to the greenhouse effect are carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFC), perfluorocarbons (PFC), and sulfur hexafluoride (SF₆). GHG emissions contributing to global climate change are attributable, in large part, to human activities associated with on-road and off-road transportation, industrial/manufacturing, electricity generation by utilities and consumption by end users, residential and commercial onsite fuel usage, and agriculture and forestry. It is "extremely likely" that more than half of the observed increase in global average surface temperature from 1951 to 2010 was caused by the anthropogenic increase in GHG concentrations and other anthropogenic forcing together (IPCC 2014: 5).

Climate change is a global problem. GHGs are global pollutants because even local GHG emissions contribute to global impacts. GHGs have long atmospheric lifetimes (one to several thousand years) and persist in the atmosphere long enough to be dispersed around the globe. Although the lifetime of any particular GHG molecule is dependent on multiple variables and cannot be determined with any certainty, it is understood that more CO₂ is emitted into the atmosphere than is sequestered by ocean uptake, vegetation, and other forms of sequestration (IPCC 2013:467).



3.8.2 Discussion

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than Significant. The issue of global climate change is inherently a cumulative issue, because the GHG emissions of an individual project cannot be shown to have any material effect on global climate. Thus, the level of GHG emissions associated with implementation of the project is addressed as a cumulative impact.

GHG emissions associated with implementation of the project would be generated during project construction. The project would not generate any additional GHG emissions beyond existing conditions during operations as operational activities would be limited to operation of a similar substation to the existing on-site use with occasional inspection and maintenance. Construction-related emissions of GHGs were estimated using CalEEMod Version 2016.3.2. A detailed discussion of the major construction activities and model assumptions is provided in Section 3.3, "Air Quality." Model outputs are included in Appendix A.

Project-related construction activities would result in the generation of GHG emissions from the use of heavy-duty off-road construction equipment and vehicle use during worker commute. Construction activities would include site preparation, trenching, and Station H control building construction. Total construction activity would result in total, finite emissions of 338 metric tons of carbon dioxide equivalent (MTCO₂e).

SMAQMD has established quantitative significance thresholds for evaluating GHG emissions. For construction of all types, emissions due to land development projects, the established significance threshold is 1,100 MTCO₂e annually (SMAQMD 2020). Total construction-related GHG emissions for the project would be primarily generated in 2023 and would be no more than 338 MTCO₂e. Therefore, construction-related GHG emissions would not exceed SMAQMD's threshold of significance. This impact would be *less than significant*, and no mitigation is required.

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

No Impact. Plans, policies, and regulations adopted for the purpose of reducing GHG emissions were developed with the purpose of reducing cumulative emissions related, primarily, to long-term operational emissions. As described previously, the project would not result in a considerable increase in GHG emissions as a result of construction activities and would not generate any GHG emissions during operations. In general, it is expected that the new substation equipment would be more efficient than existing equipment. Also, Station H is intended to serve increased density in the downtown area, which is consistent with regional efforts to reduce GHG emissions. Thus, the project would not conflict with any applicable plan, policy, or regulation adopting for the purpose of reducing emissions of GHGs. There would be **no impact**, and no mitigation is required.



3.9 Hazards and Hazardous Materials

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
IX.	Hazards and Hazardous Materials. Would the project	ect:			
a)	Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?				
b)	Create a significant hazard to the public or the environment through reasonably foreseeable upset and/or accident conditions involving the release of hazardous materials into the environment?				
c)	Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?				
d)	Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				
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 result in a safety hazard or excessive noise for people residing or working in the project area?				
f)	Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?				
g)	Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?				

3.9.1 Environmental Setting

The historic Station A building was constructed in 1894 by the Sacramento Electric Power and Light Company to distribute power that was generated at the Folsom Powerhouse. SMUD has owned and operated Station A since the 1940s. During the 1950s, the substation equipment was moved to the adjacent outdoor yard. The existing outdoor substation has three 115,000-volt (115-kV) underground transmission lines, eighteen 12-kV underground distribution lines, six 115-kV/12-kV transformers, three 12-kV switchgear, and other electrical equipment (e.g., gas-insulated substation [GIS] equipment). The eighteen 12-kV distribution lines that exit in the substation serve SMUD customers in the downtown service area.



November 2020

The project site is adjacent to the southern edge of the Railyards Specific Plan (RSP) area, which encompasses approximately 244 acres. The RSP area, as a result of railroad operations, was contaminated with various hazardous substances. These affected both soil and groundwater, and remediation efforts have been ongoing for over 25 years. Most of the soil remediation within the RSP has been completed by Union Pacific Railroad (UPRR) and certified by the California Department of Toxic Substances Control (DTSC) (City of Sacramento 2016:4.8-1). The RSP site is included on the state Hazardous Waste and Substances List ("Cortese List") compiled pursuant to Government Code 65962.5 and referenced at Public Resources Code 21092.6. While the project site is not within the RSP boundaries, it is within the South Plume Groundwater Study Area (City of Sacramento 2016: Figure 4.8-2). The constituents of concern for the South Plume area include volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), total petroleum hydrocarbons (TPH), and metals (City of Sacramento 2016:4.8-4 through 4.8-8).

The State Water Resources Control Board's (SWRCB) GeoTracker website, which provides data relating to leaking underground storage tanks (USTs) and other types of soil and groundwater contamination, along with associated cleanup activities. Hazards related to USTs and other types of contamination were identified directly adjacent to the project site while two additional hazards were identified within 500 feet of the project site (SWRCB 2020). The area adjacent to the project site was formerly operated as an auto service facility and included a 10,000-gallon UST (Nichols Consulting Engineers 2008). The case was considered closed in 2008. Of the other two sites, one was closed in 2011 and the other remains open for site investigation (SWRCB 2020).

The California Department of Toxic Substances Control's Envirostor Web site, which provides data related to hazardous materials spills and clean ups, identified a PG&E site approximately one mile south of the project site as well as multiple other cleanup sites within 0.5 miles of the site. The nearest cleanup site is located at the parking lot north of the project site with potentially affected groundwater and soil (DTSC 2020). Directly west of the site is another active cleanup sites (as of 2019) with potential contaminants of lead, diesel, and gas within groundwater and site soils (DTSC 2020).

There is one public school within the larger project vicinity; North Avenue Elementary School is located approximately 0.2 miles southeast of the project site. Additionally, several preschool centers are located within one mile of the project area.

No public airports or private airstrips are within 2 miles of the project site. The closest airport is Sacramento International Airport, approximately 3.8 miles north of the project site. The project site is not located within any airport safety zones (SACOG 2013: Map3).



3.9.2 Discussion

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less than Significant. Construction activities would involve the use of hazardous materials, such as fuels, solvents, gasoline, asphalt, and oil. The use and storage of these materials could potentially expose and adversely affect workers, the public, or the environment as a result of improper handling or use, accident, environmentally unsound disposal methods, fire, explosion, or other emergencies, resulting in adverse health or environmental effects. Project operation would involve the use of electrical equipment as well as transmission lines and would not involve the use of hazardous materials.

The California Highway Patrol and Caltrans are responsible for enforcing regulations related to the transportation of hazardous materials on local roadways, and the use of these materials is regulated by the California Department of Toxic Substances Control (DTSC), as outlined in CCR Title 22. SMUD and its construction contractors would be required to comply with the California Environmental Protection Agency's (Cal EPA's) Unified Program, which protects Californians from hazardous waste and hazardous materials by ensuring consistency throughout the state regarding the implementation of administrative requirements, permits, inspections, and enforcement at the local regulatory level. Regulated activities would be managed by the Sacramento County Environmental Management Department, which is the designated Certified Unified Program Agency, and in accordance with the regulations included in the Unified Program (e.g., hazardous materials release response plans and inventories, California Uniform Fire Code hazardous material management plans and inventories). Such compliance would reduce the potential for accidental release of hazardous materials during project construction.

The project would be required to comply with existing laws and regulations regarding the transportation, use, and disposal of hazardous materials. These regulations are specifically designed to protect the public health and the environment and must be adhered to during project construction and operation. Compliance with applicable regulations would ensure that this impact would be *less than significant*, and no mitigation is required.

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and/or accident conditions involving the release of hazardous materials into the environment?

Less than Significant. As discussed above, the project site is within the South Plume Groundwater Study Area which is subject to groundwater testing and monitoring for contamination from VOCs, SVOCs, TPH, and metals from previous activities within the RSP site. Should groundwater be encountered during project construction, testing would occur in accordance with DTSC and Regional Water Quality Control Board (RWQCB) requirements prior to dewatering activities. This may include seeking coverage under





RWQCB's General Order for Dewatering (R5-2013-0074). If dewatering activities are needed, they would include the potential use of Baker tanks and/or filtration bags, if needed, to treat water prior to discharge into the City's stormdrain system and/or sewer system. Dewatering activities would be temporary, and the volume of groundwater withdrawn would be very small relative to the subbasin's capacity.

While there is the potential for contaminated soil on the project site, SMUD will test soil samples prior to and during construction to determine whether any contamination exists and remove any contaminated soil. Project construction would involve the use of hazardous materials (e.g., fuels, oils, and lubricants), which could be accidentally upset or released into the environment. As discussed in item a) above, compliance with applicable laws and regulations regarding the transport, use, and disposal of hazardous materials would ensure that the project would result in a *less-than-significant* impact, and no mitigation is required.

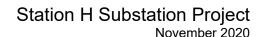
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Less than Significant. As discussed above, there is one public school within one-quarter mile of the project site. Small quantities of hazardous materials such as fuels, oils, and lubricants would be used during project construction. SMUD would conduct testing of soils to be removed from the project site. Also, ongoing groundwater testing would continue to take place in the South Plume Groundwater Study Area. The project would be required to comply with existing regulations associated with the transport, use, and disposal of hazardous materials. Compliance with applicable regulations regarding hazardous materials would reduce the potential for hazardous emissions within one-quarter mile of existing schools. Therefore, this impact would be *less than significant*, and no mitigation is required.

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code §65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Less than Significant. Government Code Section 65962.5 requires that DTSC compile and maintain a list of hazardous waste facilities subject to corrective action, land designated as hazardous waste property, or hazardous waste disposals on public land. This list is known as the Cortese List, which can be accessed on Cal EPA's website. As described above, the area directly adjacent to the project site (currently SHRA housing) was formerly operated as an auto service facility and included a 10,000-gallon UST (Nichols Consulting Engineers 2008). However, the case was considered closed as of 2008. Additionally, the RSP area is on the Cortese List and investigation, testing, and remediation activities are ongoing. While there are active hazardous and cleanup sites located within the project vicinity, the project is not located on an active site included on a list of hazardous materials sites (SWRCB 2020, DTSC 2020). Further, if any hazardous materials or conditions are

November 2020





discovered during project construction activities, the project would comply with existing laws and regulations related to the use, disposal, and transport of hazardous materials, as described in item a) and c), above. This impact would be *less than significant*, and no mitigation is required.

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 result in a safety hazard or excessive noise for people residing or working in the project area?

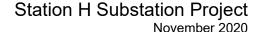
No Impact. The Sacramento International Airport is located approximately 8.5 miles northwest of the project site. The project site is not located within an airport land use plan or within 2 miles of a public airport or public use airport, or within the vicinity of a private airstrip, and implementing the project would not result in an aviation-related safety hazard for people residing or working in the project area. Therefore, **no impact** would occur, and no mitigation is required.

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less than Significant. Project construction may require temporary lane closures and closure of Government Alley that could interfere with or slow down emergency vehicles, temporarily increasing response times and impeding existing services on these roadways. However, any project activities that may involve public ROW would be required to obtain an encroachment permit from either Caltrans or the City of Sacramento. As part of this encroachment permit application, SMUD would be required to prepare and then later implement a traffic control plan, which would require the provision of temporary traffic controls and maintenance of emergency access during construction. Once project construction is complete, all roads (and Government Alley) would return to their preconstruction state and project operations would not interfere with emergency repose or evacuation plans. As a result, this impact would be *less than significant*, and no mitigation is required.

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury, or death involving wildland fires?

No Impact. The project is located in a highly developed area of Sacramento that is not adjacent to wildlands, therefore implementation of the project would not expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to developed areas. There would be **no impact** related to wildland fires, and no mitigation is required.





3.10 Hydrology and Water Quality

		ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
X.	Ну	drology and Water Quality. Would the project:				
a)	disc	late any water quality standards or waste charge requirements or otherwise substantially grade surface or groundwater quality?				
b)	inte suc	ostantially decrease groundwater supplies or erfere substantially with groundwater recharge th that the project may impede sustainable undwater management of the basin?				
c)	site cou	ostantially alter the existing drainage pattern of the or area, including through the alteration of the urse of a stream or river or through the addition of pervious surfaces, in a manner which would:				
	i)	Result in substantial on- or offsite erosion or siltation;			\boxtimes	
	ii)	Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;				
	iii)	Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or				
	iv)	Impede or redirect flood flows?			\boxtimes	
d)		lood hazard, tsunami, or seiche zones, risk ease of pollutants due to project inundation?				
e)	qua	nflict with or obstruct implementation of a water ality control plan or sustainable groundwater nagement plan?				

3.10.1 Environmental Setting

The city of Sacramento is located at the confluence of the Sacramento and American Rivers within the Sacramento River Basin. The Sacramento River Basin encompasses about 27,000 square miles and is bounded by the Sierra Nevada to the east, the Coast Ranges to the west, the Cascade Range and Trinity Mountains to the north, and the Delta to the southeast. The Sacramento River Basin is the largest river basin in California, capturing, on average, approximately 22 million acre-feet of annual precipitation (City of Sacramento 2014c:6-43). The project site is entirely developed and mostly covered with pavement. There are no surface waters within 500 feet of the project site.

Stormwater from the project site drains to the existing storm drain along 6th Street.



November 2020

Stormwater at the project site drains to the existing storm drain system along 6th Street which is part of the City of Sacramento's combined sewer system (CSS). Stormwater is then conveyed to one of two facilities for primary treatment before discharge to the Sacramento River. CSS flows and discharges are currently regulated by the provisions of Waste Discharge Requirement Order No. R5-2015-0045 (NPDES No. CA0079111) (City of Sacramento 2014a: 4.7-2).

The downtown area of the city of Sacramento is within the North and South American Groundwater Subbasin, which is part of the larger Sacramento Valley Groundwater Basin (City of Sacramento 2017). Groundwater in the project vicinity has been recorded at fairly shallow depths, ranging from approximately 14 to 33 feet below the ground surface (SMUD 2015:119). Groundwater contamination recorded in the project vicinity has been associated with past uses in the RSP area, as discussed in Section 3.8, "Hazards and Hazardous Materials."

Flooding

The project is located within an area of minimal and reduced flood hazard due to existing levee infrastructure (Zone X), as identified on Federal Emergency Management Agency (FEMA) flood hazard maps (FEMA 2020).

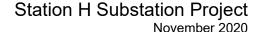
3.10.2 Discussion

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality

Less than Significant. Drainage from the project flows into the City's CSS and is discharged to the Sacramento River, which is located within the Sacramento River Basin. As such, the applicable water quality standards are listed in the Fifth Edition of the Water Quality Control Plan (Basin Plan) For the Sacramento River and San Joaquin River Basins (CRWQCB 2018).

To reduce or eliminate construction-related water quality effects, the City of Sacramento's Grading Ordinance would require future public or private contractors to comply with the requirements of the City's Stormwater Quality Improvement Plan (SQIP). As the project is not expected to disturb more than one acre of land, coverage would not be needed under the NPDES General Construction Permit. However, consistent with City requirements, the project would be required to implement BMPs intended to reduce pollutants in stormwater and other non-point source runoff. The City's SQIP and the Stormwater Quality Design Manual for the Sacramento Region include BMPs to be implemented to mitigate impacts from new development and redevelopment projects.

Consequently, violation of WDRs or water quality standards would be *less than significant*, and no mitigation is required.





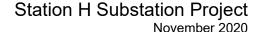
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less than Significant. The project site is underlain by the North and South American Groundwater Subbasin, which is part of the larger Sacramento Valley Groundwater Basin. The South American River Subbasin is estimated to have a groundwater storage capacity of 4,816,000 acre-feet (DWR 2004:2). Because construction activities would excavate up to 15-30 feet below ground surface (bgs) and groundwater in the project area ranging from approximately 14 to 33 feet bgs, project construction could include dewatering activities. Project construction would include installation of piles to a depth of approximately 55 feet, but pile installation would be via auger cast drilling which would not require dewatering activities. Should dewatering be required during project construction, water would be collected and treated prior to discharge, in accordance with City requirements. Dewatering activities would be temporary, and the volume of groundwater withdrawn would be very small relative to the subbasin's capacity. No groundwater would be withdrawn during project operation.

Because the project would involve construction activities within previously developed areas, which are primarily paved areas, the project would not involve construction practices or develop facilities that would substantially prevent or otherwise redirect groundwater resources in the project site. Implementation of the project would not result in an increase in impervious surfaces, and there would be no change in surface infiltration characteristics affecting groundwater recharge. For all these reasons, there would be a *less-than-significant* impact on groundwater supplies and groundwater recharge, and no mitigation is required.

- c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
 - i) Result in substantial on- or offsite erosion or siltation;

Less than Significant. Project construction activities would involve the excavation and movement of soil, which would temporarily increase erosion and siltation potential at the site. If not properly controlled, these activities could accidentally discharge wastes into waterways through runoff. However, SMUD would comply with the existing submittal and approval requirements associated with the Stormwater Management and Control Code, the Grading, Erosion and Sediment Control Ordinance, as well as the NPDES Regional MS4 Permit, which would necessitate the implementation and maintenance of on-site BMPs to control potential erosion and siltation and prevent discharges off-site. Therefore, regulatory compliance would ensure that the project does not result in substantial long-term effects on water quality. As a result, this impact would be *less than significant*, and no mitigation is required.





ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;

Less than Significant. Project construction activities would occur within the developed project site and would not include the removal of any pervious surfaces. While operation of the project would be similar to pre-construction condition, it is possible that a small amount of impervious surface could be added depending on required padding for equipment. However, any addition of impervious surface would be minimal and would not be expected to substantially increase the rate or amount of surface runoff in or near the project site. Therefore, this impact would be **less than significant**, and no mitigation is required.

iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or

Less than Significant. As excavation during project construction could go to a depth of 30 feet, dewatering may be required. Project construction would include installation of piles to a depth of approximately 55 feet, but pile installation would be via auger cast drilling which would not require dewatering activities. Should dewatering be required during project construction, water would be collected and treated prior to discharge, in accordance with City requirements. SMUD and its construction contractor would coordinate with the City to determine the maximum amount that could be discharged to the stormdrain system so that the project, in conjunction with other sources of stormwater, would not exceed the capacity of the existing system. The project site would be generally returned to its pre-construction condition and would not generate substantially new or polluted runoff. Therefore, the project would not exceed existing or planned stormwater capacity or provide polluted runoff. This impact would be *less than significant*, and no mitigation is required.

iv) Impede or redirect flood flows?

Less than Significant. The project is in an area with minimal flood risk (FEMA 2020). While not expected, flooding could occur in the area. Project construction could temporarily impede or redirect flood flows as construction equipment could be located within existing rights-of-way, which could include gutters and areas near stormdrain inlets. Construction impacts would be temporary and project operation would consist of electrical equipment that would not impede or redirect flood flows. Therefore, this impact would be less than significant, and no mitigation is required.

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

No Impact. The project site is located within an area of reduced flood risk (Zone X) (FEMA 2020). The project is in an area of mostly flat terrain with no large open bodies of water. For these reasons, the project would not be expected to be inundated. There would be **no impact**, and no mitigation is required.



November 2020

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Less than Significant. During project construction, SMUD would implement BMPs, consistent with City's water quality and watershed protection measures, as required by the Phase I NPDES Permit and implemented through the SQIP. During operation, the project would not generate wastewater or stormwater runoff, so there would be no conflict with or obstruction of a water quality control plan during project operation. As previously described, though project construction would require dewatering due to the high level of the water table in the project area, the groundwater removed would be minimal compared with the groundwater supply. Project operation would not require the use of any potable water, including groundwater. Because the project would implement BMPs consistent with local water quality control measures, this impact would be *less than significant*, and no mitigation is required.



3.11 Land Use and Planning

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
XI.	Land Use and Planning. Would the project:				
a)	Physically divide an established community?				\boxtimes
b)	Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				

3.11.1 Environmental Setting

The project site is located in the downtown area of the city of Sacramento in Sacramento County. The project site is currently an active substation that is owned and operated by SMUD with some electrical equipment located within the existing structure and the majority of substation related equipment, including underground equipment, located in the outdoor yard on the eastern side of the site. Surrounding uses include various business, commercial, residential, and transit-oriented uses, which is typical of the downtown area. The Mercy Housing Community is adjacent to the east side of the project site and includes 150 residential units over ground-floor commercial uses.

3.11.2 Discussion

a) Physically divide an established community?

No Impact. The project would involve the replacement of existing electrical equipment with new above and underground electrical equipment in a highly developed area of downtown Sacramento. The project would not introduce any barriers within the project area and would not lead to a physical division of an established community. There would be **no impact**, and no mitigation is required.

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Less than Significant. Project construction would occur within or immediately adjacent to the project site and would remove existing electrical equipment and replace with new above-ground and underground electrical equipment and utility lines. Further, the project would involve a continuation of use of the site as an electrical substation. The project does not propose any land use changes, and once operational, would be similar in scale and type to the existing use. As discussed in Section 3.4, Biological Resources," implementation of Mitigation Measure 3.4-2 would require compliance with the City of Sacramento's tree ordinance as it applies to public utilities. The project would not conflict



Station H Substation Project November 2020

with any adopted plans, policies, or regulations adopted for avoiding or mitigating an environmental effect. Therefore, this impact would be *less than significant*, and no mitigation is required.



3.12 Mineral Resources

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
XII	. Mineral Resources. Would the project:				
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?				

3.12.1 Environmental Setting

The Surface Mining and Reclamation Act directs the State Geologist to classify (identify and map) the non-fuel mineral resources of the State to show where economically significant mineral deposits occur and where they are likely to occur based upon the best available scientific data. Areas known as Mineral Resource Zones (MRZs) are classified on the basis of geologic factors, without regard to existing land use and land ownership. The areas are categorized into four general classifications (MRZ-1 through MRZ-4). Of the four, the MRZ-2 classification is recognized in land use planning because the likelihood for occurrence of significant mineral deposits is high, and the classification may be a factor in the discovery and development of mineral deposits that would tend to be economically beneficial to society.

The project site is classified as MRZ-1, which indicates no significant mineral deposits are located at the project site (DOC 1999). The project site is not designated as a locally important mineral resource recovery site in the Sacramento 2035 General Plan Update (City of Sacramento 2014c).

3.12.2 Discussion

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?

No Impact. The project site is classified as MRZ-1, and no known mineral deposits are present at the project site. Therefore, there would be **no impact**, and no mitigation is required.

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?

No Impact. The project site and surrounding area is not designated as a locally important mineral resource recovery site in the Sacramento 2035 General Plan Update (City of Sacramento 2014c: Figure 6-11). Thus, project implementation would not result in a loss of availability of locally important mineral resources, and the project would have **no impact** related to the loss of availability of a locally important mineral resource discovery site, and no mitigation is required.



3.13 Noise and Vibration

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
XII	II. Noise. Would the project result in:				
a)	Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or in other applicable local, state, or federal standards?				
b)	Generation of excessive groundborne vibration or groundborne noise levels?				
c)	For a project located within the vicinity of a private airstrip or 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?				

3.13.1 Environmental Setting

Acoustic Fundamentals

In the science of acoustics, the fundamental model consists of a sound (or noise) source, a receiver, and the propagation path between the two. Sound is the mechanical energy of a vibrating object transmitted by pressure waves through a liquid or gaseous medium (e.g., air) to a human ear. Noise is defined as loud, unexpected, annoying, or unwanted sound. As sound travels through the atmosphere from the source to the receiver, noise levels attenuate (i.e., decrease) depending on a variety of factors, including geometric spreading (i.e., spherical or cylindrical spreading), ground absorption (i.e., hard versus soft sites), atmospheric conditions (e.g., wind direction and speed, air temperature, humidity, turbulence), and shielding by natural or human-made features.

The amplitude of pressure waves generated by a sound source determines the loudness of that source, also called the sound pressure level (SPL). SPL is most commonly described by using decibels (dB) because this logarithmic unit best corresponds to the way the human ear interprets sound pressures. However, the decibel scale does not adequately characterize how humans perceive noise because the human ear is not equally sensitive to loudness at all frequencies (i.e., pitch) in the audible spectrum. To approximate the response of the human ear, sound levels of individual frequency bands are weighted, depending on the human sensitivity to those frequencies. Then, an "Aweighted" sound level (expressed in units of A-weighted decibels or dBA) can be computed based on this information. All sound levels discussed in this section are expressed in A-weighted decibels.



November 2020

Because decibels are logarithmic units, SPLs expressed in dB cannot be added or subtracted through ordinary arithmetic. Under the decibel scale, a doubling of sound energy corresponds to a 3-dB increase. In typical noisy environments, changes in noise of 1–2 dB are generally not perceptible. However, it is widely accepted that people can begin to detect sound level increases of 3 dB in typical noisy environments. Further, a 5-dB increase is generally perceived as a distinctly noticeable increase, and a 10-dB increase is generally perceived as a doubling of loudness (Caltrans 2013a:2-10).

Various noise descriptors have been developed to describe time-varying noise levels. The noise descriptors used in this chapter include:

- Equivalent Continuous Sound Level (Leq): Leq represents an average of the sound energy occurring over a specified period. In effect, Leq is the steady-state sound level containing the same acoustical energy as the time-varying sound level that occurs during the same period (Caltrans 2013a:2-48). For instance, the 1-hour equivalent sound level, also referred to as the hourly Leq, is the energy average of sound levels occurring during a 1-hour period.
- Day-Night Level (L_{dn}): L_{dn} is the energy average of A-weighted sound levels occurring over a 24-hour period, with a 10-dB "penalty" applied to sound levels occurring during nighttime hours between 10 p.m. and 7 a.m. (Caltrans 2013a:2-48; FTA 2018:214).

Ground Vibration

Vibration is the periodic oscillation of a medium or object with respect to a given reference point. Groundborne vibration is vibration of and through the ground. Sources groundborne of vibration include natural phenomena (e.g., earthquakes, volcanic eruptions, sea waves, landslides) and those introduced by human activity (e.g., explosions, machinery, traffic, trains, construction equipment). Vibration sources may be continuous, (e.g., operating factory machinery) or transient in nature (e.g., explosions).

Groundborne vibration amplitudes are commonly expressed in peak particle velocity (PPV) or root-mean-square (RMS) vibration velocity. PPV and RMS vibration velocity are normally described in inches per second (in/sec) but can also be expressed in decibel notation (VdB), which is used mainly in evaluating human response to vibration.

Existing Noise Sources

Because the project site is located in a highly developed area, several noise sources exist in the project vicinity, most prominently the six existing electrical substation transformers; vehicles traveling on local roadways (e.g., I-5, H Street, 6th Street, 7th Street), and trains for the nearby light rail. Other noise sources include the more distant Union Pacific Railroad line, construction activity at the Railyards, and mechanical equipment on nearby buildings.



November 2020

Noise- and Vibration-Sensitive Receptors

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, and because of the potential for nighttime noise to result in sleep disruption. Additional land uses such as schools, transient lodging, cemeteries, and places of worship are also generally considered sensitive to increases in noise levels. Vibration-sensitive land uses are generally considered to be buildings or structures that could be damaged due to vibration or land uses where vibration levels could interfere with operations or cause human annoyance. The nearest noise-sensitive receptor is the multifamily Mercy Housing Community located directly east of the project site, which includes 150 residential units in a 7-story building. The closest office building is located approximately 70 feet south of the project site boundary.

Local Noise Regulations

Although SMUD is not subject to the goals and policies of the City of Sacramento, the City's 2035 General Plan Environmental Constraints Element and the Noise Control Ordinance in the City of Sacramento Municipal Code contain noise policies and standards that are used as thresholds of significance in the evaluation of project-related noise impacts. All relevant local noise and vibration policies and standards are listed in depth in the Noise Report prepared for the project by Ascent Environmental in 2020 (see Appendix C). Consistent with City planning efforts, this analysis considers the following noise thresholds:

- construction-generated noise levels in excess of City Noise Control Ordinance standards during the more noise-sensitive evening, nighttime, and early-morning hours (6 p.m. to 7 a.m., Monday through Saturday, and between 6 p.m. and 9 a.m. on Sunday);
- long-term, traffic-generated noise levels in excess of the applicable normally acceptable noise standards for land use compatibility as specified in Table EC1 in the City of Sacramento General Plan Environmental Constraints Element; incremental increase standards specified in Table EC 2 in the City of Sacramento General Plan Environmental Constraints Element; or the City's interior noise standards of 45 Ldn and 45 Leq at nearby residences and office spaces, respectively;
- long-term, operational noise levels generated by stationary or area sources that exceed the City's interior noise standards of 45 L_{dn} and 45 L_{eq} at nearby residences and office spaces, respectively;
- construction-generated vibration levels exceeding Caltrans-recommended standards with respect to the prevention of structural building damage (0.25 and 0.5 in/sec PPV for historic and new residential buildings, respectively) or FTA's maximum-acceptable-



November 2020

vibration standard with respect to human response (80 VdB for residential uses and 83 Vdb for institutional land uses with primarily daytime uses) at nearby existing vibration-sensitive land uses during daytime hours; and

 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, public use airport, or private airstrip, exposure of people residing or working in the project area to excessive noise levels.

3.13.2 Discussion

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or in other applicable local, state, or federal standards?

Less than Significant. Noise would be generated by the project during construction and operation.

Temporary Construction Noise

The operation of heavy equipment during project construction would generate noise, resulting in a temporary increase in noise levels at nearby sensitive receptors. Decommissioning of Station A is anticipated to begin in the second half of 2022 and would be completed by early 2023. The construction of Station H is anticipated to begin soon after decommissioning of Station A and would be completed in 2024. Specific construction activities and equipment associated with the project and their respective noise levels are discussed in depth in the Noise Report. The loudest pieces of equipment that would be used during construction would include excavators and auger drill rigs, both of which individually generate 85 dB Leq at 50 feet (FHWA 2006:3).

The Noise Report also provides estimated levels of indoor noise exposure at nearby receptors for both onsite (i.e., within Station A) and offsite (i.e., construction of the two underground transmission lines beneath Government Alley) construction (see Table 9 in the Noise Report). Different levels of noise exposure were estimated for different floors at the Mercy Housing Community. Onsite construction noise levels would range from 50 to 58 dB L_{eq} within residential units of the Mercy Housing Community and would reach 52 dB L_{eq} within the nearest office building. The fourth floor of the Mercy Housing Community would experience the loudest levels of noise compared to other floors. Construction noise levels at more distant receptors would be lower because noise levels decrease with distance. For example, offsite construction would occur farther from noise-sensitive receptors than onsite construction and, thus, would expose receptors to less noise than onsite construction. The closest offsite construction activity would expose the fourth floor of the Mercy Housing Community and nearest office building to indoor noise levels of 56 dB L_{eq} and 41 dB L_{eq}, respectively.



November 2020

Although construction activity would result in elevated noise levels at the Mercy Housing Community and nearby office buildings, construction noise would be temporary and intermittent and would only occur during daytime hours when people are less sensitive to noise. Because construction activity would only occur between 7 a.m. and 6 p.m., Monday through Saturday and between 9 a.m. and 6 p.m. on Sunday, it would be exempt from the City's daytime noise standards. Thus, because the project would adhere to the applicable City noise standard for construction-generated noise, this impact would be less than significant, and no mitigation is required.

Long-Term, Operational Noise

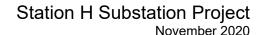
Transportation Noise Sources

After construction is completed, the project would not appreciably increase the number of employees or visitors to the project area. Therefore, after construction of project facilities is complete, operation of the project would result in minimal, if any, new vehicle trips to and from the area and there would be no measurable increase in traffic noise levels. Therefore, traffic noise associated with project operation and maintenance would have a less-than-significant impact, and no mitigation is required.

Stationary Noise Sources

Daily operation of electrical substation facilities generates noise primarily from the operation of transformer cooling equipment and fans. Transformers would be located approximately 26 feet from the lower stories of the Mercy Housing Community. Higher stories (i.e., stories four and above) would be more distant from the transformers but would not benefit from the noise attenuation provided by the existing 30-foot sound wall located along the east side of the project site adjacent to the Mercy Housing development.

Using the loudest operational scenario in which all cooling fans are operating, and accounting for a 5-dB noise reduction provided by the sound wall for the first three stories, interior noise levels would range from 31 dB 38 dB L_{eq} within residential units of the Mercy Housing Community (see Table 10 in the Noise Report). The fourth floor would experience the loudest noise level compared to other floors. Conservatively assuming that the noise level on the fourth floor remained consistent over 24 hours, the interior noise level on the fourth floor was calculated in the Noise Report to be 44 dB L_{dn}, which would not exceed the City's interior standard for residential land uses of 45 dB L_{eq}, which would not exceed the City's interior standard for office space of 45 dB L_{eq}. Additionally, because the number of transformers would be decreased from six to two as part of the project and new equipment tends to be quieter (e.g., more up-to-date technology, cleaner, more efficient), noise levels could decrease from existing conditions. Therefore, this impact would be less than significant, and no mitigation is required.





Summary

Because both temporary and long-term noise generated by the project during construction and operation, respectively, would not exceed applicable City noise standards, this impact would be **less than significant**, and no mitigation is required.

b) Generation of excessive groundborne vibration or groundborne noise levels?

Less than Significant with Mitigation Incorporated. The project would not include any operational sources of ground vibration. However, construction activities would generate temporary ground vibration, the intensity of which would depend on the specific construction equipment used and activities involved.

The most vibration—intensive activity performed during project construction would be the installation of auger cast displacement piles for construction of various support structures. Using this type of pile eliminates the need for impact pile driving, which generates much greater levels of ground vibration (Caltrans 2013b:42). The drilling of piles generates a ground vibration level of 0.089 in/sec PPV at 25 feet (FTA 2018:184).

In terms of human annoyance to building occupants, vibration from pile drilling could exceed the threshold for residential land uses of 80 VdB located within 43 feet of drilling and the daytime threshold for institutional land uses including office buildings of 83 VdB within 34 feet of drilling activities. Refer to the Noise Report (Appendix C) for detailed calculations. Pile drilling would take place within 43 feet of the Mercy Housing Community, resulting in an exceedance of the criterion for human annoyance. Because pile drilling would not take place within 34 feet of the nearest office building and the historic Station A building is unoccupied, pile drilling would not result in human annoyance in these buildings or similar buildings farther from the project site. Although construction activity would result in elevated vibration levels at the Mercy Housing Community, construction would be temporary and intermittent and would only occur during the less sensitive daytime hours between 7 a.m. and 6 p.m., Monday through Saturday and between 9 a.m. and 6 p.m. on Sunday, pursuant to the City's Noise Control Ordinance standard.

With respect to potential structural damage, pile drilling may occur in close proximity to two existing structures: the historic Station A building which was originally constructed in the 1940s; and the Mercy Housing Community, which was constructed in 2012. The historic Station A building, which would be maintained as part of the project, is considered more vulnerable to structural damage by ground vibration than the Mercy Housing Community due to its age. Based on the construction type and Caltrans-recommended thresholds identified above, pile drilling within 13 feet of a historic building and 8 feet of a residential structure would be considered potentially significant. Based on current site planning considerations, pile driving is considered to be possible within 13 feet of the historic Station A building, but due to existing underground utilities along the eastern edge of the project site, pile drilling would not occur within 8 feet of the Mercy Housing Community. Therefore,



November 2020

construction activity could expose the historic Station A building to levels of ground vibration that exceed the threshold for structural damage to a historic structure.

Because construction would be temporary and would occur during the less sensitive daytime hours, human annoyance associated with construction vibration would have a less-than-significant impact. However, because of the potential for structural damage at the historic Station A building, this impact would be **potentially significant**.

Mitigation Measure 3.13-a: Implement measures to reduce ground vibration

To reduce vibration impacts from construction activities, SMUD will require the design-build team and engineers to implement the following measures:

- To the extent feasible, earthmoving and ground-impacting operations (e.g., pile drilling) will be phased so as not to occur simultaneously in areas close to sensitive receptors. The total vibration level produced could be significantly less when each vibration source is operated at separate times.
- Where there is flexibility in the location of activating involving the use of heavyduty construction equipment, especially auger drill rigs for installing auger cast displacement piles, the equipment will be operated as far away from vibrationsensitive receptors as reasonably possible.

Mitigation Measure 3.13-b: Develop and implement a vibration control plan

A vibration control plan will be developed by SMUD's design-build team to be submitted to and approved by SMUD prior to initiating any pile drilling activities. Applicable elements of the plan will be implemented before, during, and after pile drilling activity. The plan will consider all potential vibration-inducing activities that would occur and require implementation of sufficient measures to ensure that nearby sensitive receptors, including the historic Station A building, are not exposed to vibration levels that would result in structural damage. Items that will be addressed in the plan include, but are not limited to, the following:

- Identification that the maximum allowable vibration levels at nearby buildings consist of Caltrans-recommended standards with respect to the prevention of architectural building damage, specifically: 0.25 in/sec PPV for the historic Station A building.
- SMUD or its contractor will conduct pre-construction surveys to identify any pre-existing structural damage to the historic Station A building.
- SMUD will identify minimum setback requirements for different types of ground vibration-producing activities (e.g., pile drilling) for the purpose of preventing damage to nearby structures and preventing negative human response will be



November 2020

established based on the proposed construction activities, locations, and the maximum allowable vibration levels identified above. Factors to be considered include the specific nature of the vibration producing activity, local soil conditions, and the fragility/resiliency of the nearby structures. Initial setback requirements can be breached if a project-specific, site specific analysis is conducted by a qualified geotechnical engineer or ground vibration specialist that indicates that no structural damage would occur at nearby buildings or structures.

• The construction contractor will monitor and document all pile drilling-generated vibration levels at the Station A building to ensure that applicable thresholds are not exceeded. The construction contractor will submit recorded vibration data on a twice-weekly basis to SMUD. If it is found at any time by the design-build team or SMUD that thresholds are exceeded, pile drilling will cease in that location and methods will be implemented to reduce vibration to below applicable thresholds, or an alternative construction method will be used at that location.

Implementation of Mitigation Measures 3.13-a and 3.13-b require SMUD and the design-build team to restrict phasing operations, locate equipment as far from receptors as feasible, and prepare and implement a vibration control plan. This plan will refine appropriate setback distances, require SMUD to conduct pre-construction surveys, require the construction contractor to monitor and document all pile drilling-generated vibration levels at sensitive receptors, and identify other measures and/or alternative methods of construction to reduce vibration if necessary. These measures would ensure compliance with recommended levels to prevent structural damage. Thus, this impact would be reduced to a **less-than-significant** level.

c) For a project located within the vicinity of a private airstrip or 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?

No Impact. The project is not located within an airport land use plan or within two miles of a public airport or public use airport. Additionally, the project is not located within two miles of a private airstrip. Sacramento Executive Airport is the closest airport and is located approximately 4 miles south of the project site. Also, the project would not include any new land uses where people would live or work. Thus, the project would have **no impact** regarding the exposure of people residing or working in the project area to excessive aircraft-related noise levels, and no mitigation is required.



3.14 Population and Housing

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
ΧI\	V.Population and Housing. Would the project:				
a)	Induce substantial unplanned 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 people or housing, necessitating the construction of replacement housing elsewhere?				

3.14.1 Environmental Setting

The project involves the decommissioning and removal of outdated equipment and replacement with new substation equipment. The project would not generate any new residents in the area or provide any new jobs within the Sacramento region.

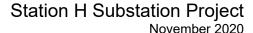
3.14.2 Discussion

a) Induce substantial unplanned 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)?

No Impact. The project involves the removal of existing electrical equipment and replacement with above-ground equipment and underground lines. The project does not include new homes or businesses. Further, new electrical equipment and distribution lines would serve existing and planned future uses in the downtown area and would not induce or generate population growth. Therefore, the project would have **no impact**, and no mitigation is required.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact. No persons or homes would be displaced as a result of project construction or operation. Therefore, the project would have **no impact**, and no mitigation is required.





3.15 Public Services

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
ΧV	. Public Services. Would the project:				
a)	Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the 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?				\boxtimes
	Police protection?				\boxtimes
	Schools?				\boxtimes
	Parks?				\boxtimes
	Other public facilities?				\boxtimes

3.15.1 Environmental Setting

The project site is located within the downtown of the City of Sacramento and is served by City of Sacramento public services (police, fire, schools, parks, and libraries).

Fire Protection Services

The Sacramento Fire Department (SFD) provides fire protection services to the project site the entire city, as well as some small areas outside the city boundaries within Sacramento County. The fire station closest to the proposed project is Sacramento Fire Department Station 2 at 1229 I Street, located approximately 0.5 miles southeast of the site.

Police Protection Services

The Sacramento Police Department (SPD) is principally responsible for providing police protection services in the city of Sacramento, including the project area. The SPD main office is located at 300 Richards Boulevard, located less than one mile north of the project site. Uses within the downtown area that are under state jurisdiction are served by the California Highway Patrol.

Schools

As previously described, there is one public school within the larger project vicinity; North Avenue Elementary School is located approximately 0.2 miles southeast of the project site. Additionally, several preschool centers are located within one mile of the project area, the



November 2020

closest of which is the Cadence Academy Preschool located at 600 I Street, approximately 500 feet south of the project site.

Parks and Other Public Facilities

The nearest park, Cesar Chavez Plaza, is located approximately 0.25 miles southeast of the project site and includes a café, fountain, picnic and public seating areas. Additionally, Zapata Park is located less than 0.5 miles northeast of the project site. The 1.05-acre park includes a common area with picnic tables, a community garden, and a seating area with benches.

3.15.2 Discussion

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, or the 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

No Impact. Implementation of the project would not increase demand for SFD fire protection services because the project would not generate new residents, which is the driving factor for fire protection services, nor would it result in the operation of additional structures within the project area that could generate calls for service. Because the project would not increase demand for fire protection services, no construction of new or expansion of existing fire service facilities would be required. Therefore, the project would have **no impact** on fire protection services, and no mitigation is required.

Police Protection

No Impact. Implementation of the project would not increase demand for SPD police protection services because the project would not generate new residents, which is the driving factor for police protection services, nor would it result in the operation of additional structures within the project area that could generate calls for service. Because the project would not increase demand for police protection services, no construction of new or expansion of existing police service facilities would be required. Therefore, the project would have **no impact** on police facilities, and no mitigation is required.

Schools

No Impact. The project would not provide any new housing that would generate new students in the community nor result in an increase in employment opportunities that could indirectly contribute new students to the local school district. Therefore, the project would have **no impact** on school services and facilities, and no mitigation is required.



Parks

No Impact. The project would not provide any new structures that could result in additional residents/employees, which could necessitate new or expanded park facilities. Therefore, the project would have **no impact** on parks, and no mitigation is required.

Other Public Facilities

No Impact. Though the project is located near public transportation stations, including Amtrack, the project would not result in additional residents or employees that would utilize these public facilities, nor would the project attract existing residents toward the area. Therefore, the project would have **no impact** on other public facilities, and no mitigation is required.



3.16 Recreation

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
X۷	/I.Recreation. Would the project:				
a)	Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				
b)	Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?				

3.16.1 Environmental Setting

The project site is located within the downtown area of the city of Sacramento. As previously described, the nearest park, Cesar Chavez Plaza, is located approximately 0.25 miles southeast of the project site and includes a café, fountain, picnic and public seating areas. Additionally, Zapata Park is located less than 0.5 miles northeast of the project site. The 1.05-acre park includes a common area with picnic tables, a community garden, and a seating area with benches.

3.16.2 Discussion

a) Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

No Impact. The project does not include any new development (i.e., residential, office, or commercial) that could increase the use of existing local parks or recreational facilities. Therefore, the project would have **no impact**, and no mitigation is required.

b) Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment?

No Impact. The project does not include any new development that could necessitate new or expanded recreational facilities. Therefore, the project would have **no impact**, and no mitigation is required.



3.17 Traffic and Transportation

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
χV	II. Transportation/Traffic. Would the project:				
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 section 15064.3, subdivision (b)?			\boxtimes	
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?		\boxtimes		

3.17.1 Environmental Setting

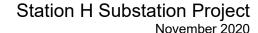
The project site is located between H Street and Government Alley, and between 6th Street and 7th Street. H Street along the project site is a two-lane, one-way street with traffic traveling east and light rail tracks along the northern side of the road. Along the west side of the historic Station A building, 6th Street includes three lanes for vehicle travel, with 2 lanes for southbound traffic and one lane for northbound vehicles. Most project activities would be contained within the project site owned by SMUD, but some construction equipment placement and utility connections would be required within public rights-of-way.

The Gold Line of Sacramento Regional Transit's light rail system includes track within H Street adjacent to the sidewalk fronting the project site. There are no transit stops located at or near the project site. There is also a sidewalk along 6th Street which is adjacent to the historic Station A building. Bike lanes are located along 6th Street and the south side of H Street.

3.17.2 Discussion

a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities?

Less than Significant with Mitigation Incorporated. Project construction would temporarily interfere with existing vehicle, transit, bicycle, and pedestrian circulation as it would include temporary closures of roads, sidewalks, and bike lanes. Upon completion of construction, all facilities would be returned to their pre-project condition. Project operation would not generate additional vehicle, transit, pedestrian, or bicycle use, so there would be no conflicts with programs, plans, ordinances, or policies related to circulation.





Section 12.20.030 of the Sacramento Municipal Code requires Because project construction activities could affect the existing circulation system, this impact would be potentially significant.

Mitigation Measure 3.17-1: Traffic Control Plan

Prior to project construction within or adjacent to public roadways, SMUD's construction contractor shall develop a traffic control plan for the project and submit the plan to the City of Sacramento's Department of Public Works. The plan shall identify temporary lane, sidewalk, bicycle lane, and transit stop closures and provide information regarding how access and connectivity will be maintained during construction activities. The plan shall include details regarding traffic controls that would be employed, including signage, detours, and flaggers. The traffic control plan shall be implemented by the contractor during construction to allow for the safe passage of vehicles, pedestrians, and cyclists along the project route.

Implementation of Mitigation Measures 3.17-1 would reduce impacts related to the circulation system by ensuring that accessibility and connectivity are maintained during construction activities. Therefore, this impact would be reduced to a *less-than-significant* level.

b) Conflict or be inconsistent with CEQA Guidelines section 15064.3(b), which pertains to vehicle miles travelled?

Less than Significant. Temporary construction activities would result in slight increases in vehicle trips associated with worker commutes and materials delivery. However, these additional trips would only occur during the construction period. During operation, no new vehicle trips would be generated as the project involves existing facilities with existing maintenance and operations activities. Because the project would not change the amount of development projected for the area, would be consistent with the population growth and VMT projections in regional and local plans, and would have only a slight increase in VMT during construction, this impact would be *less than significant*, and no mitigation is required.

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less than Significant with Mitigation Incorporated. Project operation would not result in any changes in road geometry or new uses. As discussed above, project construction would require temporary closure of vehicle lanes as well as sidewalks, bike lanes, and transit stops. This impact would be potentially significant.



November 2020

Implementation of Mitigation Measures 3.17-1 would reduce impacts related to traffic hazards during construction by requiring a plan to maintain access and provide safety information. As part of the plan, requirements would be established to allow for the safe, controlled passage of vehicles through the project area. Therefore, impacts related to traffic hazards would be reduced to a *less-than-significant* level.

d) Result in inadequate emergency access?

Less than Significant with Mitigation Incorporated. As discussed above, project operation would not change any existing roads, including areas provided for emergency access. Project construction would involve temporary lane closures, which has the potential to impact access for emergency vehicles. This impact would be potentially significant.

Implementation of Mitigation Measures 3.17-1 would reduce impacts related to inadequate emergency access during construction by requiring implementation of a plan to maintain access for emergency vehicles during construction. Therefore, impacts related to emergency access would be reduced to a *less-than-significant* level.



November 2020

3.18 Tribal Cultural Resources

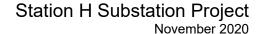
	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
ΧV	III. Tribal Cultural Resources.				
cor	s a California Native American Tribe requested isultation in accordance with Public Resources Code ection 21080.3.1(b)?		Yes	□N	0
Pu def	ould the project cause a substantial adverse change in t blic Resources Code section 21074 as either a site, fea fined in terms of the size and scope of the landscape, so tive American tribe, and that is:	ture, place, cul	ltural landscape th	at is geograph	ically
a)	Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?				
b)	A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?				

3.18.1 Environmental Setting

Tribal Consultation

On August 6, 2020, the Native American Heritage Commission (NAHC) identified a tribal cultural resource site proximate to the project site in response to a Sacred Lands File Search request (NAHC 2020). The NAHC's letter advised SMUD to contact the lone Band of Miwuk Indians and the United Auburn Indian Community of the Auburn Rancheria for more information. The NAHC also provided a list and contact information for additional Native American contacts who may have interest in the project.

On July 17, 2020, SMUD sent emails and certified letters to the lone Band of Miwok Indians, United Auburn Indian Community of the Auburn Rancheria (UAIC), and Wilton Rancheria. All three tribes have requested to consult on the project, as has the Shingle Springs Band of Miwok Indians.



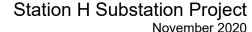


3.18.2 Discussion

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

- a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?
- b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?

Potentially Significant. The records search identified known tribal cultural resources at the project site or within 1/8-mile of the project site (NCIC 2020). Currently, four tribes are actively engaging in consultation with SMUD regarding potential tribal cultural resources in the project area. Therefore, impacts related to the project could be **potentially significant**. These issues will be analyzed further in the EIR.





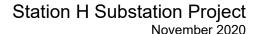
3.19 Utilities

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than- Significant Impact	No Impact
XIX	C.Utilities and Service Systems. Would the project:				
a)	Require or result in the relocation or construction of construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication 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 wastewater treatment provider that 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?				

3.19.1 Environmental Setting

Water supply is provided by the City of Sacramento from a combination of surface water from the American and Sacramento rivers and groundwater pumped from the North and South American Subbasins. The City operates and maintains the Sacramento River Water Treatment Plant, E. A. Fairbairn Water Treatment Plant, 18 high-lift service pumps at the water treatment plants, 27 groundwater wells that deliver potable water to the distribution system, pumping facilities, 11 storage reservoirs, and water distribution and transmission mains. (City of Sacramento 2014c:4-21)

The City's Department of Utilities provides wastewater collection and conveyance to approximately two-thirds of the area within the city limits that is not served by the combined sewer system (CSS), while the Sacramento Area Sewer District (formerly County Services District 1) provides wastewater collection to the rest of the city (City of Sacramento 2014c:4-1). The project site is served by the City's CSS for sewer only, and existing sewer mains are located along 5th Street and 7th Street (SMUD 2015). Stormwater from the project site drains to the existing storm drain along 6th Street.





Most refuse collected by the City is transported to the Kiefer Landfill (City of Sacramento 2014c:4-44). Sacramento County owns and operates the Kiefer Landfill, and the landfill is the primary solid waste disposal facility in the county. The Kiefer Landfill is classified as a Class III municipal solid waste landfill facility and is permitted to accept general residential, commercial, and industrial refuse for disposal, including municipal solid waste, construction and demolition debris, green materials, agricultural debris, and other nonhazardous designated debris.

3.19.2 Discussion

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunication facilities, the construction or relocation of which could cause significant environmental effects?

Less than Significant. The project would replace existing electrical equipment aboveground and would include construction of underground transmission lines. The project would also include restroom facilities in a new control building, which replace existing restroom facilities in the historic Station A building. The restroom facilities would require connections to City water and wastewater systems. Should groundwater be encountered during project construction, testing would occur in accordance with DTSC and Regional Water Quality Control Board (RWQCB) requirements prior to dewatering activities. Discharge to the stormdrain system and/or sewer system would be temporary and would not exceed system capacity as water could be retained on the project site until there is adequate capacity. Project operation would have approximately the same demand for water and generate the same amount of wastewater. This water demand and wastewater generation would be substantially similar to existing system demands and flows. This impact would be *less than significant*, and no mitigation is required.

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less than Significant. The project would require a small amount of potable water for use in the restroom in the control building, which is substantially similar to the existing demand for facilities in the historic Station A building. Because the demand would be substantially similar to existing demand, the impact would be **less than significant**, and no mitigation is required.

c) Result in a determination by the wastewater treatment provider that 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?

Less than Significant. As discussed under item a), project construction could include dewatering and water could be discharged to the City's CSS. Water discharged to the City's CSS would be temporary and would not exceed system capacity as water could be



November 2020

retained on the project site until there is adequate capacity. Once operational, the project would use the CSS for the wastewater generated by the restroom in the control building, which is expected to generate a similar amount of wastewater as the existing facilities in the historic Station A building. Therefore, the project would have *less-than-significant* impact related to wastewater treatment capacity, and no mitigation is required.

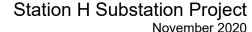
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less than Significant. The project would generate solid waste during construction activities by the removal of existing equipment on the project site. Construction debris could include asphalt, concrete, scrap lumber, finishing materials, metals, and organic materials. Compliance with the 2013 CALGreen Code and the City Construction and Demolition Debris Recycling Ordinance would result in a reduction of construction waste and demolition debris and increase recycling. In addition, the construction contractor would comply with goals of the Sacramento 2035 General Plan Update also contains goals regarding solid waste generation and recycling.

The majority of landfilled waste would be delivered to the Sacramento Recycling and Transfer Station, the Sacramento County Kiefer Landfill, the Yolo County Landfill, L and D Landfill, Florin Perkins Landfill, and Elder Creek Transfer Station. Combined, these landfills have a large volume of landfill capacity available to serve the project during construction. Project operation would include intermittent visits from SMUD personnel, so it is expected that very little solid waste would be generated during operation, similar to existing conditions. This impact would be *less than significant*, and no mitigation is required.

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less than Significant. The project would cause a temporary increase in the generation of solid waste as a result of construction activities. However, the operation of the project would not generate solid waste. Compliance with the City of Sacramento policies regarding solid waste would prevent landfills from being overloaded due to the project construction activities. This impact would be **less than significant**, and no mitigation is required.





3.20 Wildfire

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XX. Wil	dfire.				
	roject located in or near state responsibility areas s classified as high fire hazard severity zones?				
	ed in or near state responsibility areas or lands ed as very high fire hazard severity zones, would ect:] Yes	⊠ N	lo
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 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?				
d)	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?				\boxtimes

3.20.1 Environmental Setting

The project site is located within a local responsibility area that is designated as a non-Very High Fire Hazard Severity Zone (non-VHFHSZ) (CAL FIRE 2008).

3.20.2 Discussion

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

Less than Significant. Construction of the project could require temporary road lane closures that could temporarily impair emergency response plans or evacuation plans. As required by the City, SMUD and its construction contractor would develop and implement a traffic control plan that would maintain access and connectivity during project construction activities. Because access and connectivity would be maintained during construction, the project would not substantially impair an emergency response plan or evacuation plan. Once construction is complete, the project would operate similar to its pre-construction condition project features would not impair emergency response or



November 2020

evacuation. Because adequate access would be maintained throughout construction activities, this impact would be *less than significant*, and no mitigation is required.

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?

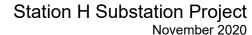
No Impact. The project would not exacerbate wildfire risks as the project site is not located within a wildfire hazard zone, is substantially surrounded by developed land, and is not near wildland areas. There would be **no impact**, and no mitigation is required.

c) Require the installation 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?

Less than Significant. The project involves the removal and reinstallation of electrical transmission and distribution infrastructure to provide supply reliability and serve existing and planned future uses in the downtown area. The project would not exacerbate fire risk because the project would adhere to all safety requirements for the equipment to be replaced. This impact would be **less than significant**, and no mitigation is required.

d) 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?

No Impact. The project is located in an area of predominantly flat terrain and would not involve the changing to slopes that could expose people to risks of flooding from post-fire slope instability. Project facilities would be located both aboveground and under the ground surface, however, would operate similar to current conditions and would not result in changes to existing drainage. There would be **no impact**, and no mitigation is required.





3.21 Mandatory Findings of Significance

	ENVIRONMENTAL ISSUES	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
XV	III. Mandatory Findings of Significance.				
a)	Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of an endangered, rare, or threatened species, or eliminate important examples of the major periods of California history or prehistory?				
b)	Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)				
c)	Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?				

Authority: Public Resources Code Sections 21083, 21083.5.

Reference: Government Code Sections 65088.4.

Public Resources Code Sections 21080, 21083.5, 21095; Eureka Citizens for Responsible Govt. v. City of Eureka (2007) 147 Cal.App.4th 357; Protect the Historic Amador Waterways v. Amador Water Agency (2004) 116 Cal.App.4th at 1109; San Franciscans Upholding the Downtown Plan v. City and County of San Francisco (2002) 102 Cal.App.4th 656.

3.21.1 Discussion

a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of an endangered, rare, or threatened species, or eliminate important examples of the major periods of California history or prehistory?

Potentially Significant. The project is located in downtown Sacramento in an infill and transit-oriented area. There are few biological resources on the site and as described in Section 3.4, "Biological Resources," the proposed project's impacts on special-status species and potential conflicts with the City's tree ordinance would be less than significant with mitigation.



Additional evaluation is necessary to determine whether the project would affect archaeological, historic, or tribal cultural resources. This **potentially significant** impact will be analyzed further in the EIR.

b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.)

Potentially Significant. Generally, because of the limited scope of the project (i.e., limited construction activities within less than 0.5 acre and no expansion of use beyond existing conditions), implementation would not result in cumulatively considerable contributions to the cumulative effects of development in the area. Evaluation of the project's contribution to cumulative impacts related to archaeological, historic, and tribal cultural resources will be evaluated after the project impacts are characterized in the EIR. This **potentially significant** impact will be analyzed further in the EIR.

c) Does the project have environmental effects that will cause substantial adverse effects on human beings, either directly or indirectly?

Potentially Significant. The EIR will evaluate environmental effects that could cause substantial adverse effects on human beings associated with the construction of this project, either directly or indirectly. This **potentially significant** impact will be analyzed further in the EIR.



4. List of Preparers

SMUD

Rob Ferrera Environmental Specialist

Ascent

Chris Mundhenk Principal

Cori Resha, J.D. Project Manager

Alta Cunningham Architectural Historian

Kirsten Burrowes Environmental Planner

Julia Wilson Air Quality/GHG Specialist

Carlos Alvarado Biologist

Tammie Beyerl Senior Biologist

Masury Lynch Noise Specialist

Austin Kerr Senior Noise Specialist

Lisa Merry GIS Specialist

Phi Ngo GIS Specialist

Brian Perry Graphics Specialist

Corey Alling Graphics Specialist

Gayiety Lane Publishing Specialist

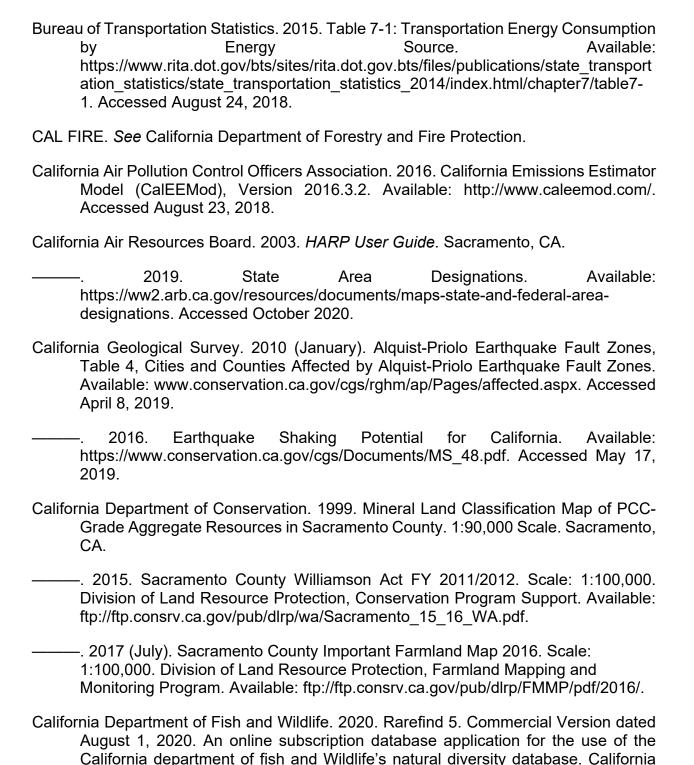
Michele Mattei Publishing Specialist



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