DRAFT

INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION

SOUTH VALLEY MIDDLE SCHOOL CAMPUS MODERNIZATION PROJECT

385 I.O.O.F AVENUE

GILROY, CALIFORNIA 95020

August 2021

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SOUTH VALLEY MIDDLE SCHOOL CAMPUS REPLACEMENT

385 I.O.O.F AVENUE

GILROY, CALIFORNIA 95020

Submitted to:

Gilroy Unified School District
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Gilroy, CA 95020

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August 2021

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LIST OF ABBREVIATIONS AND ACRONYMS

AB	Assembly Bill
BAAQMD	Bay Area Air Quality Management District
BMP	Best Management Practice
CalEEMod	California Emissions Estimator Model
CALFIRE	California Department of Forestry and Fire Protection
Caltrans	California Department of Transportation
CAP	Clean Air Plan
CAPCOA	California Air Pollution Control Officers' Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CDE	California Department of Education
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CGS	California Geological Survey
CH_4	Methane
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CO	Carbon monoxide
CO_2	Carbon dioxide
COPCs	Contaminants of potential concern
dBA	A-weighted decibels
District	Gilroy Unified School District
DPM	diesel particulate matter
DSA	Division of the State Architect
EIR	Environmental impact report
FEMA	Federal Emergency Management Agency
FHSZ	Fire Hazard Severity Zone
GFD	Gilroy Fire Department
GHG	Greenhouse gas
GWP	Global warming potential
IS/MND	Initial Study/Mitigated Negative Declaration
kV	Kilovolt
L_{dn}	day-night average level
L_{eq}	Equivalent continuous sound level
L_{max}	maximum instantaneous sound level
LOS	Level of service
LRA	Local responsibility area
N_2O	Nitrous oxide
NAHC	Native American Heritage Commission
NOA	Naturally occurring asbestos
NO_x	Nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
O_3	ozone
OCPs	Organochlorine pesticides
PCBs	Polychlorinated biphenyls

PEA	Preliminary Environmental Assessment
PHMSA	Pipeline and Hazardous Materials Safety Administration
PM_{10}	Particulate matter diameter 10 microns
$PM_{2.5}$	Particulate matter diameter 2.5 microns
PPV	Peak particle velocity
PRC	Public Resources Code
ROG	Reactive organic gases
SB	Senate Bill
SRA	State Responsibility Area
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	Toxic air contaminant
VHFHSZ	Very High Fire Hazard Severity Zone
VHP	Santa Clara Valley Habitat Plan
VMT	Vehicle miles traveled
VTA	Santa Clara Valley Transportation Authority
WDRs	Waste discharge requirements

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1.0 PROJECT INFORMATION

1. Project Title:

South Valley Middle School Campus Modernization

2. Lead Agency Name and Address:

Gilroy Unified School District
7810 Arroyo Circle
Gilroy, California 95020

3. Contact Person and Phone Number:

Marissa Van Patten, (408) 612-2720

4. Project Location:

385 I.O.O.F Avenue
Gilroy, California 95020

5. Project Sponsor's Name and Address:

N/A

6. General Plan Designation:

Public and Quasi-Public Facility

7. Zoning:

PF Park/Public Facility

8. Description of Project:

The Gilroy Unified School District (District) proposes to replace all facilities on the existing South Valley Middle School campus (Figure 1). The buildings, utilities, and systems have reached their end of life and require replacement. Replacement structures include, but are not limited to, approximately 44 classrooms, administration, library, multi-use/cafeteria building, gymnasium and associated facilities, basketball courts, tennis courts, playgrounds and fields; all sanitary, storm, electrical, plumbing, fire alarm and fire protection systems.

As part of the proposed project, the District proposes to reconfigure access to the campus by relocating the school driveways from their current locations on I.O.O.F. Avenue to Murray Avenue as part of a campus modernization plan. The intent of moving the access points is to alleviate congestion on I.O.O.F. Avenue by shifting the school access further away from the neighboring Gilroy Prep School and the District maintenance and transportation department, both of which have driveways on I.O.O.F. Avenue.

Construction of the project would occur in 3 phases over the course of approximately 27 months. The first phase would occur over the course of approximately 14 months and

would require site demolition and rough grading of the Phase 1 Site (Figure 2). Parking lots, landscaping, and temporary administrative facilities would be installed in the first phase. Modular classrooms would be installed. During the last month of Phase 1 and leading into Phase 2, the school would relocate from the existing school facility to the proposed facility.

Phase 2 would occur over the course of approximately 15 months and overlaps with the last 2 months of Phase 1. Phase 2 includes the site demolition and rough grading of the Phase 2 Site (Figure 2). During this phase, the administrative, multi-purpose building, and gymnasium would be constructed. Additionally, site infrastructure and landscape/hardscape would be installed.

Phase 3 would occur over the course of approximately 6 months and overlaps with the final months of Phase 2. Phase 3 involves grading and development of the sports field, as shown on Figure 2.

9. Surrounding Land Uses and Setting:

Low-Density Residential (as designated by the City of Gilroy General Plan) is located north, east, and south of the project area. Northeast of the project area is land designated as General Services Commercial, and southwest of the project site is the Downtown Corridor. Immediately west of the project area is Gilroy Prep School, which is designated as Public and Quasi-Public Facility land.

10. Other Public Agencies Whose Approval is Required (e.g., permits, financial approval, or participation agreements):

- California Department of Education, School Facilities and Transportation Unit
- Department of Toxic Substance Control
- Division of the State Architect
- California State Clearing House
- Native American Heritage Commission
- California Regional Water Quality Control Board
- City of Gilroy Public Works
- City of Gilroy Fire Department
- Santa Clara County Health Department

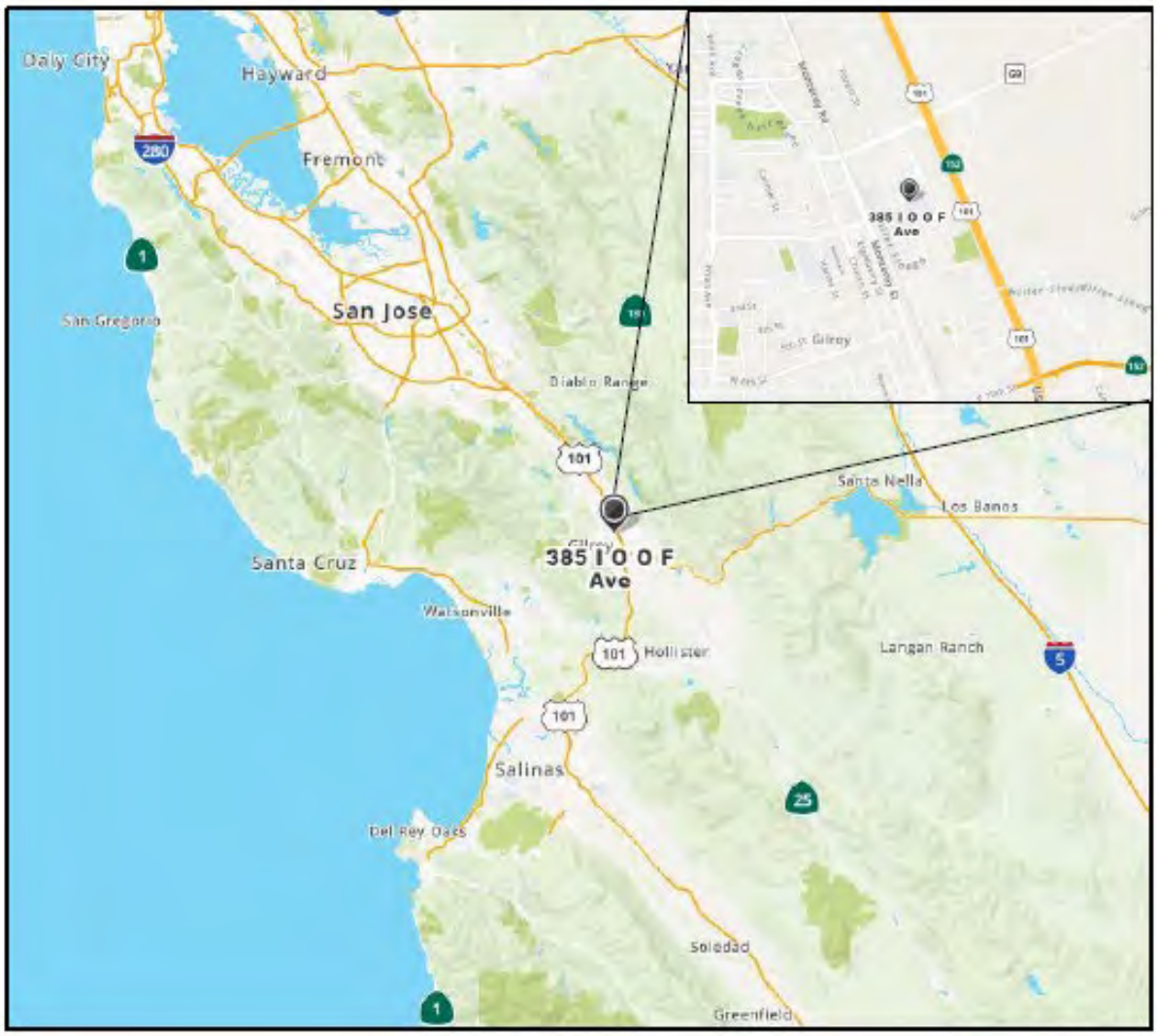

Figure 1: **Project Location**

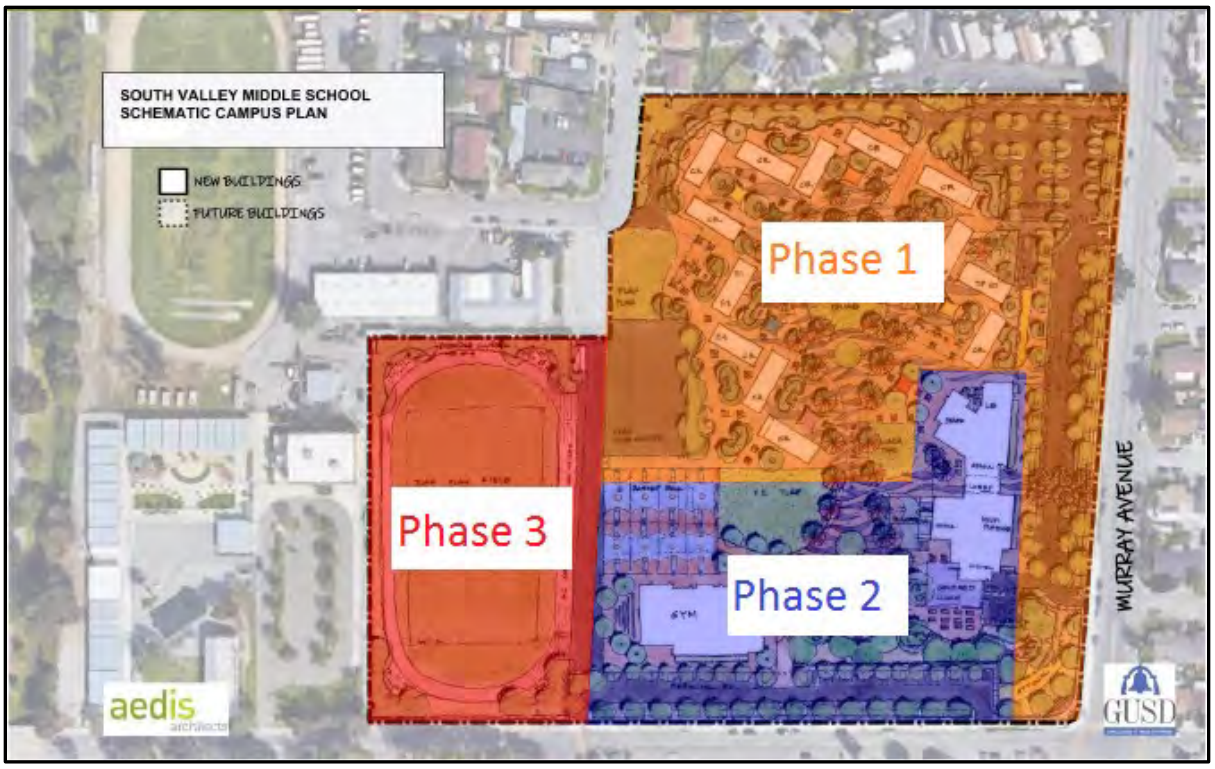

Figure 2: **Proposed Project**

11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resource Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

The District requested a Sacred Lands File search from the Native American Heritage Commission in April 2019. Pursuant to AB 52, the District contacted the tribal representatives on the list on April 23, 2019. To date, the District has received no responses from tribal representatives. In the event that the tribal representatives express interest in the project and/or the project area, the District will coordinate with the tribes to address any concerns.

2.0 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 in Chapter 3.0.

☐ Aesthetics	☐ Agriculture and Forestry Resources	☐ Air Quality
☐ Biological Resources	☐ Cultural Resources	☐ Energy
☐ Geology/Soils	☐ Greenhouse Gas Emissions	☐ Hazards & Hazardous Materials
☐ Hydrology/Water Quality	☐ Land Use/Planning	☐ Mineral Resources
☐ Noise	☐ Population/Housing	☐ Public Services
☐ Recreation	☐ Transportation	☐ Tribal Cultural Resources
☐ Utilities/Service Systems	☐ Wildfire	☐ Mandatory Findings of Significance

2.1 DETERMINATION

On 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 ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier ENVIRONMENTAL IMPACT REPORT or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Paul Nadeau
Signature

8/13/2021
Date

Special Requirements under the State School Facility Program

In addition to the CEQA Guidelines, primary and secondary public schools have several additional requirements established by the California Code of Regulations and California Education Code. Table 1 identifies the specific health and safety requirements for a state-funded new school or a state-funded addition to an existing school site. These health and safety requirements are outlined in the California Department of Education (CDE) School Site Selection and Approval Guide. The analyses and response is included under the relevant section identified in the table below.

Table 1: Special Requirements for School Site Selection and Approval

Topic	Environmental Code	Environmental Checklist
Air Quality		
Is the boundary of the proposed school site within 500 feet of the edge of the closest traffic lane of a freeway or busy traffic corridor? If yes, would the project create an air quality health risk due to the placement of the School?	PRC § 21151.8(a)(1)(D); Ed. Code§ 17213(c)(2)(C)	Section 3.3 Air Quality, Question (e)
Would the project create an air quality hazard due to the placement of a school within one-quarter mile of: (a) permitted and non-permitted facilities identified by the jurisdictional air quality control board or air pollution control district; (b) freeways and other busy traffic corridors; (c) large agricultural operations; and/or (d) a rail yard, which might reasonably be anticipated to emit hazardous air emissions, or handle hazardous or acutely hazardous material, substances, or waste?	PRC § 21151.8 (a)(2); Ed. Code § 17213 (b)	Section 3.3 Air Quality, Question (f)
Geology and Soils		
Does the site contain an active earthquake fault or fault trace, or is the site located within the boundaries of any special studies zone or within an area designated as geologically hazardous in the safety element of the local general plan?	CCR, Title 5 § 14010(f); Ed. Code, § 17212	Section 3.7 Geology and Soils, Question (a)(i)
Would the project involve the construction, reconstruction, or relocation of any school building on a site subject to moderate to high liquefaction?	CCR, Title 5 § 14010(i)	Section 3.7 Geology and Soils, Question (a)(iii)
Would the project involve the construction, reconstruction, or relocation of any school building on a site subject to landslides?	CCR, Title 5 § 14010(i)	Section 3.7 Geology and Soils, Question (a)(iv)
Would the project involve the construction, reconstruction, or relocation of any school building on the trace of a geological fault along which surface rupture can reasonably be expected to occur within the life of the school building?	CCR, Title 5 § 14010(f); Ed. Code § 17212	Section 3.7 Geology and Soils, Question (a)(i)
Hazards and Hazardous Materials		
Is the property line of the proposed school site less than the following distances from the edge of respective powerline easements: (1) 100 feet of a 50-133 kV line; (2) 150 feet of a 220-230 kV line; or (3) 350 feet of a 500-550 kV line?	CCR, Title 5 § 14010(c)	Section 3.9 Hazards and Hazardous Materials, Question (h)
Is the proposed school site located near an aboveground water or fuel storage tank or within 1,500 feet of an easement of an aboveground or	CCR, Title 5 § 14010(h)	Section 3.9 Hazards and

underground pipeline that can pose a safety hazard to the site?		Hazardous Materials, Question (i)
Is the proposed school site situated within 2,000 feet of a significant disposal of hazardous waste?	CCR, Title 5 § 14010(t)	Section 3.9 Hazards and Hazardous Materials, Question (d)
Does the proposed school site contain one or more pipelines, situated underground or aboveground, which carry hazardous substances, acutely hazardous materials, or hazardous wastes, unless the pipeline is a natural gas line that is used only to supply natural gas to that school or neighborhood?	PRC § 21151.8 (a)(1)(C)	Section 3.9 Hazards and Hazardous Materials, Question (i)
Is the school site in an area designated in a city, county, or city and county general plan for agricultural use and zoned for agricultural production, and if so, do neighboring agricultural uses have the potential to result in any public health and safety issues that may affect the pupils and employees at the school site? *(Does not apply to school sites approved by CDE prior to January 1, 1997.)*	Ed. Code § 17215.5 (a)	Section 3.9 Hazards and Hazardous Materials, Question (j)
Does the project site contain a current or former hazardous waste disposal site or solid waste disposal site and, if so, have the wastes been removed?	PRC § 21151.8 (a)(1)(A)	Section 3.9 Hazards and Hazardous Materials, Question (k)
Is the project site a hazardous substance release site identified by the state Department of Health Services in a current list adopted pursuant to §25356 for removal or remedial action pursuant to Chapter 6.8 of Division 20 of the Health and Safety Code?	PRC § 21151.8 (a)(1)(B)	Section 3.9 Hazards and Hazardous Materials, Question (d)
If prepared, has the risk assessment been performed with a focus on children's health posed by a hazardous materials release or threatened release, or the presence of naturally occurring hazardous materials on the school site?	Ed. Code § 17210.1 (a)(3)	Section 3.9 Hazards and Hazardous Materials, Question (c)
If a response action is necessary and proposed as part of this project, has it been developed to be protective of children's health, with an ample margin of safety?	Ed. Code § 17210.1 (a)(4)	Section 3.9 Hazards and Hazardous Materials, Question (l)
Is the proposed school site within two miles, measured by airline, of that point on an airport runway or potential runway included in an airport master plan that is nearest to the site? *(Does not apply to school sites acquired prior to January 1,1966.)*	Ed. Code § 17215 (a)&(b)	Section 3.9 Hazards and Hazardous Materials, Question (e)
Hydrology and Water Quality		
Is the project site subject to flooding or dam inundation?	CCR, Title 5 § 14010(g); Ed. Code § 17212;	Section 3.10 Hydrology and Water Quality, Question (d)
Land Use and Planning		
Would the proposed school conflict with any existing or proposed land uses, such that a potential health or safety risk to students would be created?	CCR, Title 5 § 14010(m)	Section 3.11 Land Use and Planning, Question(b)

Noise		
Is the proposed school site located adjacent to or near a major arterial roadway or freeway whose noise generation may adversely affect the education program?	CCR, Title 5 § 14010(e)	Section 3.13 Noise, Question (d)
Public Services		
Does the site promote joint use of parks, libraries, museums, and other public services?	CCR, Title 5 § 14010(o)	Section 3.15 Public Services, Question (f)
Transportation		
Is the proposed school site within 1,500 feet of a railroad track easement?	CCR, Title 5 § 14010(d)	Section 3.17 Transportation, Question (e)
Is the site easily accessible from arterials and is the minimum peripheral visibility maintained for driveways per Caltrans' Highway Design Manual?	CCR, Title 5 § 14010(k)	Section 3.17 Transportation, Question (f)
Are traffic and pedestrian hazards mitigated per Caltrans' School Area Pedestrian Safety manual?	CCR, Title 5 § 14010(l)	Section 3.17 Transportation, Question (g)

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3.0 CEQA ENVIRONMENTAL CHECKLIST

3.1 AESTHETICS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Except as provided in Public Resources Code Section 21099, would the project:				
a. Have a substantial adverse effect on a scenic vista?	☐	☐	☒	☐
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 a publicly accessible vantage point.) 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 Impact Analysis

a. Would the project have a substantial effect on a scenic vista?

As stated in the City of Gilroy 2040 General Plan Draft Environmental Impact Report (City of Gilroy 2020), “neither the current Gilroy 2020 General Plan nor the Santa Clara County General Plan designate specific scenic vistas within the city or in the immediate unincorporated areas adjacent to the city. The Gilroy 2020 General Plan identifies Hecker Pass as the ‘jewel of Gilroy’ valued for its rural qualities and scenic views, agricultural lands, open spaces and limited residential and commercial development.” Hecker Pass is located approximately 1 mile west of the proposed project area. Hecker Pass is not visible from the proposed project area, nor would the project block views of Hecker Pass from areas adjacent to the proposed project. This impact would be less than significant.

b. Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

According to the California Department of Transportation (Caltrans), the nearest Eligible State Scenic Highway is State Route 152 approximately 8.0 miles west of the proposed project (Esri 2018). While the project site has non-native trees, the project site is devoid of rock outcroppings or historic structures. Therefore, project construction and operation would have no impact on scenic resources within a state scenic highway.

c. In non-urbanized areas, would the project 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 a publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Views of the project area from publicly accessible vantage points (i.e., I.O.O.F. Avenue and Murray Avenue) currently consist of the existing South Valley Middle School campus. Views of the surrounding areas contain residences, overhead utility poles, and trees in the foreground, trees and residential rooftops in the middle ground, and trees and mountains (west) in the background. The proposed project would introduce new features that would replace existing structures but would be visible from publicly accessible vantage points; however, construction and operation of the proposed project would be consistent with the existing and proposed use identified in the City of Gilroy 2040 General Plan and would not degrade the visual quality of the site or surroundings. Impacts would be less than significant.

d. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

The proposed project includes demolition of the existing South Valley Middle School and construction and operation of a new, modern campus. The existing South Valley Middle School campus includes light sources. Project implementation would replace sources of light and glare in the project area. The project would include a variety of indoor and outdoor lighting. Lighting would be provided for adequate illumination for safe access and basic security. Exterior lighting will include wall-mounted fixtures on buildings and bollard lighting. Pole-mounted lighting would be shielded and directional so as to direct light away from surrounding residential land uses. The project site was designated as a school in the City's General Plan and school uses are allowed under the current land use designation. As such, lighting impacts associated with a school use were analyzed in the City's General Plan Environmental Impact Report (EIR), which determined that impacts related to nighttime lighting from future development would be less than significant (City of Gilroy 2020b). Because the project would replace nighttime lighting consistent with existing uses, this impact would be less than significant.

3.2 AGRICULTURE AND FORESTRY RESOURCES

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

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would 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?	☐	☐	☐	☒
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 Impact Analysis

a. 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 use?

The project site is designated as Urban and Built-Up Land on the Santa Clara County Important Farmland Map released by the California Department of Conservation (DOC 2016). Therefore, the project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to nonagricultural use. The project would have no impact.

b. Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

The project site has a General Plan land use designation of Public and Quasi-Public Facility and is not subject to a Williamson Act contract (DOC 2016). Therefore, the project would not conflict with existing zoning for agricultural use or a Williamson Act contract and the project would have no impact.

c. Would the project 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))?

The project site is surrounded by residential and school-related uses. The site's existing zoning "PF Park/Public Facility" does not support the definitions provided by Public Resources Code (PRC) Section 42526 for timberland, PRC Section 12220(g) for forestland, or Government Code Section 51104(g) for timberland zoned for production. Therefore, no impacts related to the conversion of timberlands or forest land would occur.

d. Would the project result in the loss of forest land or conversion of forestland to non-forest use?

As discussed in the response 3.2.1(c), the project site is surrounded by residential and school-related uses. Implementation of the project would not result in the loss of forest land or conversion of forest land to non-forest use. No impact would occur.

e. Would the project 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?

The City of Gilroy General Plan identifies the project area as a Public and Quasi-Public Facility site (City of Gilroy 2020a). No forest land is located within the project site or the vicinity of the project site. Implementation of the proposed project would not result in changes to the environment that, due to its location or nature, could result in the conversion of farmland to non-agricultural use or converting forest land to non-forest use. Therefore, no impact would occur.

3.3 AIR QUALITY

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

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Conflict with or obstruct implementation of the applicable air quality plan?	☐	☒	☐	☐
b. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐
c. Expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐
d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐
e. Is the boundary of the proposed school site within 500 feet of the edge of the closest traffic lane of a freeway or busy traffic corridor? If yes, would the project create an air quality health risk due to the placement of the School?	☐	☐	☒	☐
f. Would the project create an air quality hazard due to the placement of a school within one-quarter mile of: (a) permitted and non-permitted facilities identified by the jurisdictional air quality control board or air pollution control district; (b) freeways and other busy traffic corridors; (c) large agricultural operations; and/or (d) a rail yard, which might reasonably be anticipated to emit hazardous air emissions, or handle hazardous or acutely hazardous material, substances, or waste?	☐	☐	☒	☐

3.3.1 Impact Analysis

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

The Bay Area is considered a non-attainment area for ground-level ozone (O_3) and particulate matter with diameter 2.5 microns ($PM_{2.5}$) under both the federal Clean Air Act and state Clean Air Act. The area is also considered nonattainment for particulate matter with diameter 10 microns (PM_{10}) under the state act, but not the federal act. The area has attained both state and federal ambient air quality standards for carbon monoxide (CO). As part of an effort to attain and maintain ambient air quality standards for O_3 and PM_{10}, the Bay Area Air Quality Management District (BAAQMD) has established thresholds of significance for these air pollutants and their precursors. These thresholds are for O_3 precursor pollutants (ROG and NO_X), PM_{10}, and $PM_{2.5}$, and apply to both construction period and operational period impacts.

The proposed modernization of the existing school would not conflict with the Bay Area 2017 Clean Air Plan (CAP) because the project would replace the existing campus. Enrollment is not anticipated to increase beyond its current enrollment of 800 students and would remain below the BAAQMD CEQA Air Quality Guidelines Operational Criteria Pollutant Screening Size of 2,747 students and 271,000 square feet of area, is consistent with the City of Gilroy General Plan, and would be located near bike paths and transit with regional connections. Because the project would not exceed the BAAQMD screening criteria, it would not result in the generation of operational-related criteria air pollutants and/or precursors that exceed the BAAQMD thresholds. Therefore, the project would not be required to incorporate project-specific control measures listed in the 2017 CAP. Implementation of the proposed project would not result in a significant impact related to consistency with the Bay Area 2017 CAP (BAAQMD 2017a).

The California Emissions Estimator Model (CalEEMod), Version 2016.3.2, was used to estimate construction emissions for the proposed project. For purposes of this CalEEMod analysis, the construction schedule for Phase 1 was estimated to be 15 months, starting in spring 2021. Phase 2 was estimated to be 15 months, starting in spring 2022, and Phase 3 was estimated to be 6 months, starting in winter 2023. Default assumptions (e.g., construction fleet activities) from CalEEMod were used. Appendix A contains CalEEMod output worksheets. Results are summarized in Table 2.

Table 2: Project Construction Emissions

	Emissions (lbs/day)					
	CO	**NO_x**	**ROC**	**SO_x**	**PM_{10}**	**$PM_{2.5}$**
Year 2021	7.58	9.42	0.98	0.014	1.41	0.92
Year 2022	13.92	14.67	4.24	0.027	1.63	1.14
Year 2023	12.89	11.59	3.69	0.022	0.97	0.74
BAAQMD Significance Threshold	N/A	54.0	54.0	N/A	82.0	54.0
Exceed Threshold?	No	No	No	No	No	No

Source: Compiled by SSS, Inc. (2021).
CO = carbon monoxide
N/A = Not Applicable
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in size
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
ROC = reactive organic compounds
BAAQMD = Bay Area Air Quality Management District
SO_X = sulfur oxides
Lbs/day = pounds per day

As shown in Table 2, construction emissions associated with the proposed project would be less than significant. Although the proposed project would not exceed the BAAQMD significance thresholds for criteria pollutants, the BAAQMD CEQA Air Quality Guidelines (BAAQMD 2017b) recommends standard mitigation for all construction projects. Therefore, **Mitigation Measure AQ-1** would be implemented.

Because the proposed project would replace structures on the project site and would not result in an increase in enrollment, operational emissions would be consistent with existing conditions.

Construction and operation of the proposed project would not conflict with or obstruct implementation of the 2017 CAP.

b. Would the project 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?

As stated in the BAAQMD CEQA Air Quality Guidelines (BAAQMD 2017b), air pollution by its nature is largely a cumulative impact. No single project is sufficient in size, by itself, to result in nonattainment of ambient air quality standards. If a project exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. The proposed project would not, by itself, result in any air pollutant emissions exceeding BAAQMD's significance thresholds as discussed above. Individually, the project would not result in a cumulatively considerable net increase of any criteria pollutant for which the region is in nonattainment. Therefore, the proposed project would have a less than significant impact.

c. Would the project expose sensitive receptors to substantial pollutant concentrations?

During construction, diesel equipment would be operating. Diesel particulate matter (DPM) is known to the State of California as a toxic air contaminant (TAC). The risks associated with exposure to substances with carcinogenic effects are typically evaluated based on a lifetime of chronic exposure, which is defined in the California Air Pollution Control Officers' Association (CAPCOA's) Air Toxics "Hot Spots" Program Risk Assessment Guidelines as 24 hours per day, 7 days per week, 365 days per year, for 70 years. DPM would be emitted during the short term of construction assumed for the proposed project from heavy equipment used in the construction process. Because diesel exhaust particulate matter is considered carcinogenic, long-term exposure to diesel exhaust emissions has the potential to result in adverse health impacts. Due to the short-term nature of project construction, impacts from exposure to diesel exhaust emissions during construction would be less than significant. No DPM-generating equipment, aside from potential landscape equipment, would be located on-site during operation of the proposed project; therefore, the proposed project would result in intermittent operation of DPM-generating equipment. This impact would be less than significant.

d. Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

The CEQA guidelines indicate that a significant impact would occur if the proposed project would create objectionable odors affecting a substantial number of people. Construction of the proposed project would emit diesel exhaust and volatile organic compounds, which are objectionable to some; however, emissions will disperse rapidly from the project site and the activity would be temporary. Impacts due to objectionable odors would be less than significant.

e. Is the boundary of the proposed school site within 500 feet of the edge of the closest traffic lane of a freeway or busy traffic corridor? If yes, would the project create an air quality health risk due to the placement of the School?

Busy traffic corridors are defined as 100,000 vehicles per day in an urban area as defined by the California Department of Education. The nearest highway is U.S. 101, which is located approximately 700 feet west of the proposed project area. While U.S. 101 in Gilroy experiences an average daily traffic of 107,100 vehicles per day (Caltrans 2017), the proposed project would modernize an existing school campus. This impact would be less than significant.

f. Would the project create an air quality hazard due to the placement of a school within one-quarter mile of: (a) permitted and non-permitted facilities identified by the jurisdictional air quality control board or air pollution control district; (b) freeways and other busy traffic corridors; (c) large agricultural operations; and/or (d) a rail yard, which might reasonably be anticipated to emit hazardous air emissions, or handle hazardous or acutely hazardous material, substances, or waste?

Within one-quarter mile of the proposed project area are residential, recreational, school-related uses, and commercial uses, including vehicles sales and repair facilities located 0.25 mile from the nearest proposed project site boundary. None of these uses would create an air quality hazard for the proposed school site. As discussed in response 3.3 (e), the nearest highway is approximately 700 feet (0.13 mile) from the proposed project area; however, the proposed project would modernize the existing school campus and would not cite a new school facility at the proposed project site. And no agricultural operations are located within 0.25 mile of the proposed school site. The project area is located approximately 0.11 mile west of the existing Caltrain line. The proposed project would modernize the existing school campus and would not cite a new school facility in proximity to the Caltrain line. This impact would be less than significant.

3.3.2 Mitigation Measures

Mitigation Measure AQ-1: The following measures shall be implemented by the construction contractor during construction activities:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) shall be watered two times per day.
- All haul trucks transporting soil, sand, or other loose material off-site shall be covered.
- All visible mud or dirt track-out onto adjacent public roads shall be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited.
- All vehicle speeds on unpaved roads shall be limited to 15 mph.
- All roadways, driveways, and sidewalks to be paved shall be completed as soon as possible. Building pads shall be laid as soon as possible after grading unless seeding or soil binders are used.

- Idling times shall be minimized either by shutting equipment off when not in use or reducing the maximum idling time to 5 minutes (as required by the California airborne toxics control measure Title 13, Section 2485 of California Code of Regulations [CCR]). Clear signage shall be provided for construction workers at all access points.

- All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications. All equipment shall be checked by a certified mechanic and determined to be running in proper condition prior to operation.

- Post a publicly visible sign with the telephone number and person to contact at the Lead Agency regarding dust complaints. This person shall respond and take corrective action within 48 hours. The Air District's phone number shall also be visible to ensure compliance with applicable regulations.

3.4 BIOLOGICAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would 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 Game or 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, regulations or by the California Department of Fish and Game or 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 Impact Analysis

a. Would the project 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 Game or U.S. Fish and Wildlife Service?

A search of the California Department of Wildlife's California Natural Diversity Database (CNDDB) Gilroy 7.5-minute quadrangle identified 36 occurrences of special-status plant and animal species. However, with the exception of trees on the project site, no suitable habitat is present within the proposed project area to support the special-status species. No native habitat is present on or adjacent to the project site. Because of the surrounding built environment, no mammals other than raccoons, domestic dogs and cats occur in the area, nor do any reptilian species.

Common native and non-native bird species may find shelter and nesting opportunities within the trees on the project site. Therefore, implementation of **Mitigation Measure BIO-1** would reduce impacts to nesting birds protected by the Migratory Bird Treaty Act to a less-than-significant level.

With implementation of Mitigation Measure BIO-1, construction and operation of the proposed project would not impact species identified as candidate, sensitive, or special-status in local or regional plans, policies, and regulations.

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

Review of the National Wetlands Inventory indicates there are no surface waters within 0.15 mile of the project site. Therefore, no direct or indirect impacts to riparian habitat or other sensitive natural communities are anticipated as a result of project activities.

c. Would the project 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?

Review of the National Wetlands Inventory indicates no wetlands are mapped on the project site. Therefore, no direct or indirect impacts to federally protected wetlands as defined by Section 404 of the Clean Water Act through direct removal, filling, hydrological interruption, or other means are anticipated as a result of project activities.

d. Would the project 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?

The project site has been previously graded and developed and is surrounded by residential fencing on the north side of the project site. Residential uses and roadway corridors are located to the east and south of the proposed project site, and Gilroy Prep School is to the west. The project site does not contain wildlife travel routes, such as a riparian strip, ridgeline, drainage, or wildlife crossings, such as a tunnel, culvert, or underpass.

The project site and adjacent areas do not support resident or migratory fish species or wildlife nursery sites. No established resident or migratory wildlife corridors occur within the project site. Therefore, the project would not interfere substantially with or impede: (1) the movement of any resident or migratory fish or wildlife species, (2) established resident or migratory wildlife corridors, or (3) the use of wildlife nursery sites.

e. Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Trees present onsite include Modesto ash, redwood, and non-native trees. No sensitive habitats are present on the project site. The proposed project may require tree removal; however, the proposed project would plant native trees as part of the proposed project. Therefore, the project would not conflict with local policies or ordinances protecting biological resources.

f. Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

The Santa Clara Valley Habitat Plan (VHP) is a combined Habitat Conservation Plan and Natural Community Conservation Plan incorporating the southern portion of Santa Clara County, including the cities of Gilroy, San Jose, and Morgan Hill. The Habitat Plan was developed in association with the U.S. Fish and Wildlife Service, California Department of Fish and Wildlife, and Santa Clara Valley Open Space Authority. It provides a framework to protect, enhance, and restore natural resources in many areas of Santa Clara County, while improving and streamlining the environmental permitting process for impacts to threatened and endangered species. The southern portion of the project site is designated Urban Areas in the Santa Clara Valley Habitat Plan. Urban Areas do not include a fee; however, the northeastern field area is designated Fee Zone B (Agricultural and Valley Floor Land). The project would apply for coverage under the VHP and pay applicable land cover fees to the Santa Clara Valley Habitat Agency.

The project does not have the potential to directly impact any sensitive habitats or special-status species. Potential effects to nesting birds would be mitigated with implementation of the measure included in this chapter. Since the project would apply for coverage under the VHP and since any potential impacts to biological resources from the project would be mitigated, the proposed project would not conflict with the provisions of the VHP.

3.4.2 Mitigation Measures

Mitigation Measure BIO-1: Tree removal and construction activities shall be scheduled to commence prior to the beginning of nesting activity (March 1) or after fledging (August 15). If this is infeasible, the District shall retain a biologist to conduct pre-construction surveys between March 1 and August 15 in potential nesting habitat to identify nest sites. Surveys should be conducted within one week of tree removal and the start of construction to identify active nests prior to the initiation of construction activities. If an active raptor nest is observed within 350 feet of the project site, the District shall contact California Department of Fish and Wildlife (CDFW) for guidance and/or establish a 350-foot buffer around the nest tree. If a passerine bird nest is observed within 100 feet of the project site, the District shall contact CDFW for guidance and/or establish a 100-foot buffer around the nest tree. If construction activities cannot be prohibited within the established buffers until young have fledged, District consultation with CDFW shall be conducted for a reduced buffer zone based on nesting phenology, site conditions, and recommendation(s) of a biological monitor. The District shall prohibit construction activities in the buffer zone until the young have fledged.

3.5 CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?	☐	☐	☒	☐
b. Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?	☐	☐	☒	☐
c. Disturb any human remains, including those interred outside of formal cemeteries?	☐	☐	☒	☐

3.5.1 Impact Analysis

a. Would the project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?

The project site has been previously disturbed and developed and is adjacent to surrounding residential uses. While the school buildings were constructed in 1968, the onsite buildings are not considered historic resources. Therefore, this impact would be less than significant.

b. Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

The project site has been disturbed by previous grading activity. Therefore, the potential for the site to contain archaeological resources is considered to be low.

However, unknown or unrecorded resources may potentially be revealed during construction activities associated with the construction of the proposed school. This may occur if ground disturbance activities penetrate deeper than previous work performed. California PRC protects archaeological, paleontological, and historical sites with a wide variety of state policies and regulations in conjunction with CEQA. Furthermore, all construction activities must comply with PRC Section 21083.2-21084.1 and CEQA Guidelines Section 15064.5 and 15126.4(b), which address the protection of archaeological and historical resources. This impact would be less than significant.

c. Would the project disturb any humans remains, including those interred outside of formal cemeteries?

The project site has been previously graded. During previous ground disturbance activities, no human remains were identified or recorded onsite. In the unlikely event that human remains are discovered, during precise grading or construction activities, the project would be subject to California Health and Safety Code Section 7050.5 and PRC Section 5097.98. California Health and Safety Code Section 7050.5 identify the required procedures to follow in the unlikely discovery of human remains. PRC Section 5097.98 stipulates the notification process during the discovery of Native American human remains, descendants, disposition

of human remains, and associated artifacts. Therefore, adherence to all applicable codes and regulations would result in a less-than-significant impact.

3.6 ENERGY

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

3.6.1 Impact Analysis

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

Title 24 is designed to provide certainty and uniformity throughout California while ensuring that the efficient and non-wasteful consumption of energy is carried out through design features. Adherence to Title 24 is deemed necessary to ensure that no significant impacts occur from the inefficient, wasteful, and unnecessary consumption of energy. The proposed buildings would be compliant with Title 24; therefore, the proposed project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. This impact would be less than significant

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

Title 24 is designed to provide certainty and uniformity throughout California while ensuring that the efficient and non-wasteful consumption of energy is carried out through design features. Adherence to Title 24 is deemed necessary to ensure that no significant impacts occur from the inefficient, wasteful, and unnecessary consumption of energy. The proposed buildings would be compliant with Title 24; therefore, the proposed project would not conflict with or obstruct a state or local plan for renewable energy or energy efficiency. This impact would be less than significant.

3.7 GEOLOGY AND SOILS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
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 Division of Mines and Geology Special Publication 42.	☐	☒	☐	☐
ii. Strong seismic ground shaking?	☐	☒	☐	☐
iii. Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐
iv. Landslides?	☐	☐	☒	☐
b. Result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐
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?	☐	☐	☒	☐
d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐
e. Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	☐	☐	☐	☒
f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

3.7.1 Impact Analysis

a. Would the project 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 Division of Mines and Geology Special Publication 42.

According to earthquake fault zone maps issued by the California Geological Survey (CGS), the project site is not located within the boundaries of an Alquist-Priolo Earthquake Fault Zone, and no active faults are known to cross the project site (Padre 2018). The nearest fault is the Cardanero Fault, which is located 1.5 miles southwest of the project area. With implementation of **Mitigation Measure GEO-1**, impacts to the project area from rupture of a known earthquake fault would be less than significant.

ii. Strong seismic ground shaking?

The San Francisco Bay Area is prone to seismic activity; therefore, the proposed project may experience strong seismic shaking. With implementation of **Mitigation Measure GEO-1**, impacts related to strong seismic ground shaking would be less than significant.

Adherence to the California Building Code would ensure the proposed improvements resist minor earthquakes without damage and major earthquakes without collapse. This impact would be less than significant.

iii. Seismic-related ground failure, including liquefaction?

According to the City of Gilroy General Plan Figure 3.6-2 Liquefaction Hazard Zones (City of Gilroy 2020a), the proposed project site is not located in an area designated as a high or very high liquefaction hazard area. This impact is considered less than significant.

iv. Landslides?

See response 3.7 (a)(iii). This impact would be less than significant.

b. Would the project result in substantial soil erosion or the loss of topsoil?

Project construction activities, including land clearing, grading, and excavation, would disturb on-site soils, temporarily exposing them to wind and water erosion. Any construction activity affecting 1 acre or more is required to comply with the Construction General Permit (Water Quality No. 2009-0009-DWQ, as amended by Order Nos. 2010-0014-DWQ and 2012-0006-DWQ) implemented and enforced by the Central Valley Regional Water Quality Control Board. The General Permit requires the project applicant to prepare and submit a stormwater pollution prevention plan (SWPPP) that identifies best management practices (BMPs) to reduce construction effects on receiving water quality by implementing erosion control measures and reducing or eliminating non-stormwater discharges. A SWPPP provides a schedule for the implementation and maintenance of erosion control measures and a description of site-specific erosion control practices, such as appropriate design details and a time schedule. The SWPPP would consider the full range of erosion control BMPs. Examples of construction BMPs to reduce erosion include the use of temporary mulching, seeding, or other suitable stabilization measures to protect uncovered soils; performing clearing and earth-moving activities only during dry weather; and limiting construction access routes and stabilizing designated access points.

With implementation of existing regulations, project impacts would be less than significant.

c. Would the project 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?

According to the U.S. Department of Agriculture Web Soil Survey, surficial soils at the

project site consist of the Pleasanton series' loam (0 to 2 percent slopes) and gravelly loam (0 to 2 percent slopes). This soil type is well drained. The shrink-swell potential is moderate. The proposed project would be constructed on relatively level, stable soils and would not result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. This impact would be less than significant.

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

According to the U.S. Department of Agriculture Web Soil Survey, surficial soils at the project site consist of the Pleasanton series' loam (0 to 2 percent slopes) and gravelly loam (0 to 2 percent slopes). This soil type is well drained. The shrink-swell potential is moderate. The proposed project would be constructed on relatively level, stable soils to ensure no risks to life or property. This impact would be less than significant.

e. Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

The project would not include installation of septic tanks, as the proposed project facilities would connect to the City of Gilroy sewer services. Therefore, the capability of the soils to support the operation of such tanks does not need to be evaluated. No impact would occur in association with construction and operation of the project.

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

The potential exists that paleontological resources could be discovered during construction activities. Implementation of **Mitigation Measure GEO-2** would reduce potential impacts to paleontological resources to a less-than-significant level.

3.7.1 Mitigation Measures

Mitigation Measure GEO-1: The proposed project shall prepare a site-specific geotechnical report to verify compliance with the California Building Code. The report shall determine the site-specific soil conditions and identify the appropriate design and construction techniques to minimize risks to people and structures, including measures for site preparation, compaction, trench excavations, foundation and subgrade design, drainage, and pavement design. Subsurface exploration, laboratory testing, and engineering analyses may be required as part of the investigations.

The report shall be submitted to the Division of the State Architect for review and approval prior to construction.

Mitigation Measure GEO-2: During construction, if paleontological resources are encountered, all ground-disturbing activities shall be redirected within 50 feet of the find until a qualified paleontologist can be contacted to evaluate the find and make recommendations. If found to be significant and proposed project activities cannot avoid the paleontological

resources, a paleontological evaluation and monitoring plan, shall be implemented. Adverse impacts to paleontological resources shall be mitigated, which may include monitoring, data recovery and analysis, a final report, and the accession of all fossil material to a paleontological repository. Upon completion of project ground-disturbing activities, a report documenting methods, findings, and recommendations shall be prepared and submitted to the paleontological repository.

3.8 GREENHOUSE GAS EMISSIONS

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

3.8.1 Impact Analysis

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

Greenhouse gas emissions (GHGs) are present in the atmosphere naturally, and are released by natural sources, or are formed from secondary reactions taking place in the atmosphere. However, over the last 200 years, human activities have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere, and enhancing the natural greenhouse effect, which is believed to be causing global climate change. The gases that are widely seen as the principal contributors to human-induced global climate change are:

- Carbon dioxide (CO_2)
- Methane (CH_4)
- Nitrous oxide (N_2O)
- Hydrofluorocarbons
- Perfluorocarbons
- Sulfur Hexafluoride

Certain gases, such as water vapor, are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of GHGs above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

These gases vary considerably in terms of Global Warming Potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. GWP is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and the length of time that the gas remains in the atmosphere (“atmospheric lifetime”).

The GWP of each gas is measured relative to CO_2, the most abundant GHG; the definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period.

Construction Greenhouse Gas Emissions. Construction activities associated with the proposed project, such as site preparation, site grading, on-site construction vehicles, equipment hauling materials to and from the project site, and motor vehicles transporting the construction crew would produce combustion emissions from various sources. During construction, GHGs would be emitted through the operation of construction equipment and from worker and builder supply vendor vehicles, each of which typically uses fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs such as CO_2, CH_4, and N_2O. Furthermore, CH_4 is emitted during the fueling of heavy equipment. Exhaust emissions from on-site construction activities would vary daily as construction activity levels change.

There is no threshold for construction-related activities. Using CalEEMod, it is estimated that construction of the proposed project would generate a total of approximately 430 metric tons of CO_2 equivalents (CO_2e). When considered over the 30-year life of the project, the total amortized construction emissions for the proposed project would be 14.3 metric tons of CO_2e per year. As such, construction of the proposed project would not generate GHG emissions that would have a significant impact on the environment and construction-related impacts would be less than significant.

Operational Greenhouse Gas Emissions. Long-term GHG emissions are typically generated from mobile, area, waste, and water sources as well as indirect emissions from sources associated with energy consumption. Mobile-source GHG emissions would include project-generated haul trips to and from the site. Area-source emissions would be associated with activities such as landscaping and maintenance on the project site. Energy source emissions are typically generated at off-site utility providers as a result of increased electricity demand generated by a project. Stationary source emissions would be associated with emergency backup generators. In addition, water source emissions associated with the proposed project are generated by water supply and conveyance and water distribution.

Operational emissions were estimated using CalEEMod and the results are presented in Table 3. CalEEMod output sheets are included in Appendix A.

Table 3: Operational GHG Emissions

Emissions Source Category	Operational Emissions (Metric Tons per Year)				
	CO_2	CH_4	N_2O	CO_2e	Percent of Total
Area	0.00	0.00	0.00	0.00	0.00
Energy	82.97	0.0016	0.0015	83.47	100.0
Mobile	0.00	0.00	0.00	0.00	0.00
Total Operational					**100.0**

Source: SSS (April 2021).

The proposed project would generate approximately 83.47 metric tons of CO_2e per year of emissions, as shown in Table 3. It should be noted that the project involves a modernization of the existing school site and would result in equivalent or improved CO_2e emissions

compared to existing conditions. The BAAQMD analyzes CO_2e levels for determining non-stationary sources operational-related impacts on the environment; the school is considered a non-stationary source since it is a public facility. The threshold is set at 1,100 metric tons per year. Based on the emission estimates shown in Table 3, the proposed project would not result in the generation of substantial GHG emissions. As such, operation of the proposed project would not generate GHG emissions that would have a significant impact on the environment and construction-related impacts would be less than significant.

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

AB 32 is aimed at reducing GHG emissions to 1990 levels by 2020. AB 32 requires the California Air Resource Board (CARB) to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. The AB 32 Scoping Plan has a range of GHG reduction actions, which include direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, market-based mechanisms such as a cap-and-trade system, and an AB 32 implementation fee to fund the program.

Executive Order Executive Order B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan (CARB 2017), to reflect the 2030 target set by Executive Order B-30-15 and codified by Senate Bill (SB) 32. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reductions target of at least 40 percent below 1990 levels by 2030 contained in Executive Order B-30-15. SB 32 builds on AB 32 and keeps the State on the path toward achieving the 2050 objective of reducing emissions to 80 percent below 1990 levels. The companion bill to SB 32, AB 197, provides additional direction to CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 intended to provide easier public access to air emissions data that are collected by CARB was posted in December 2016.

As identified above, the AB 32 Scoping Plan contains GHG reduction measures that work towards reducing GHG emissions, consistent with the targets set by AB 32, Executive Order B-30-15 and codified by SB 32 and AB 197. The measures applicable to the proposed project include energy efficiency measures, water conservation and efficiency measures, and transportation and motor vehicle measures, as discussed below.

Energy efficient measures are intended to maximize energy efficiency building and appliance standards, pursue additional efficiency efforts including new technologies and new policy and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. As discussed in response 3.6.1(b), energy usage on the project site during construction would be temporary in nature. In addition, energy usage associated with operation of the proposed project would be relatively small in comparison to the State's available energy sources and energy impacts would be negligible at the regional level. Therefore, the proposed project would not conflict with applicable energy measures.

Water conservation and efficiency measures are intended to continue efficiency programs and use cleaner energy sources to move water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. The project would implement water conservation and efficiency strategies for irrigation and potable water distribution on the site. Therefore, the proposed project would not conflict with any of the water conservation and efficiency measures.

The goal of transportation and motor vehicle measures is to develop regional GHG emissions reduction targets for passenger vehicles. The District anticipates that the project would continue to accommodate the students living in the vicinity of the proposed project site and no increase in enrollment is proposed as part of the proposed project. The project would not conflict with reduction targets for passenger vehicles. Therefore, the proposed project would not conflict with policies and regulations that have been adopted for the purpose of reducing GHG from transportation sources.

The proposed project would comply with existing State regulations adopted to achieve the overall GHG emissions reduction goals identified in AB 32, the AB 32 Scoping Plan, Executive Order B-30-15, SB 32, and AB 197 and would be consistent with applicable state plans and programs designed to reduce GHG emissions. Therefore, the proposed project would not conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs and impacts would be less than significant.

3.9 HAZARDS AND HAZARDOUS MATERIALS

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
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 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 2 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?	☐	☐	☐	☒
h. Is the property line of the proposed school site less than the following distances from the edge of respective powerline easements: (1) 100 feet of a 50-133 kV line; (2) 150 feet of a 220-230 kV line; or (3) 350 feet of a 500-550 kV line?	☐	☐	☒	☐
i. Is the proposed school site located near an aboveground water or fuel storage tank or within 1,500 feet of an easement of an aboveground or underground pipeline that can pose a safety hazard to the site?	☐	☐	☒	☐
j. Is the school site in an area designated in a city, county, or city and county general plan for agricultural use and zoned for agricultural production, and if so, do neighboring agricultural uses have the potential to result in any public health and safety issues that may affect the pupils and employees at the school site? *(Does not apply to school sites approved by CDE prior to January 1, 1997.)*	☐	☐	☒	☐
k. Does the project site contain a current or former hazardous waste disposal site or solid waste disposal site and, if so, have the wastes been removed?	☐	☐	☐	☒
l. If a response action is necessary and proposed as part of this project, has it been developed to be protective of children's health, with an ample margin of safety?	☐	☒	☐	☐

3.9.1 Impact Analysis

a. Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Construction of the proposed project would require the transport and use of small quantities of hazardous materials in the form of gasoline, diesel, and oil. There is the potential for small leaks due to refueling of construction equipment; however, implementation of Best Management Practices (BMPs) identified in construction specification plans would reduce the potential for accidental release of construction-related fuels and other hazardous materials. These BMPs would prevent, minimize, or remedy stormwater contamination from spills or leaks, control the amount of runoff from the site, and require proper disposal and handling of hazardous materials.

Any on-site storage, transport, or use of hazardous materials during the operation of the proposed project would comply with local, state, and federal regulatory requirements.

Therefore, impacts associated with a potential hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials would be less than significant.

b. Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Construction of the proposed project would require the transport and use of small quantities of hazardous materials in the form of gasoline, diesel, and oil. There is the potential for accidental release of hazardous materials; however, implementation of BMPs identified in construction specification plans would reduce the potential for accidental release of construction-related fuels and other hazardous materials. These BMPs would prevent, minimize, or remedy stormwater contamination from spills or leaks, control the amount of runoff from the site, and require proper disposal and handling of hazardous materials. Any on-site storage, transport, or use of hazardous materials during the operation of the proposed project would comply with local, state, and federal regulatory requirements.

In June 2019, Geocon Consultants conducted a Preliminary Environmental Assessment (PEA). The PEA evaluated the potential presence of contaminants of potential concern (COPCs) including organochlorine pesticides (OCPs), arsenic, and lead, from potential historical agricultural use of the site prior to development of the school, lead from lead-containing paint on school structures, polychlorinated biphenyls (PCBs) from window caulking on school structures and electrical transformers, and asbestos from naturally occurring asbestos (NOA) in area soil.

The PEA found that further evaluation of OCPs are warranted; however, arsenic, lead, PCB, and NOA levels in the soil did not warrant further evaluation. Additionally, chlordane was found in the soil at levels that pose an increased health risk to site users.

The proposed project would require the excavation and transport of contaminated soils. Excavated soil would transported and disposed of by weight (i.e., tonnage). Cubic-yards of soil are converted to tons by multiplying the in-situ soil volume by an expansion factor of 1.1, and a conversion factor 1.5 to obtain the soil amount in tons.

Whereas:

- In-situ soil volume (cy) x 1.1 (expansion factor) x 1.5 (conversion factor) = tons
- 255 cubic yards x 1.1 (expansion factor) x 1.5 (conversion factor) = 421 tons.
- 421 tons ÷ 20 tons per load = 21 truckloads.

Based on laboratory analytical soil results from the PEA and SSI, the planned excavated soil is anticipated to be disposed of as a non-hazardous waste. The John Smith Road Landfill in San Benito, which is approximately 23 miles from the proposed project site, has been identified to accept and store and/or treat non-hazardous soil generated from the removal activities.

With implementation of **Mitigation Measure HAZ-1**, this impact would be less than significant.

c. Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

The project must comply with the California Education Code (including Section 17521, requiring the governing board of the school district to adopt a resolution in connection with consideration of proposal for occupancy of a building to be constructed on its property and to conduct a public meeting), and the California Code of Regulations (CCR), Title 5, Sections 14001 through 14012, which outlines the powers and duties and establishes standards with which the CDE, and all public school districts, must comply in the selection of new school sites.

See response 3.9.1(c).

Land uses surrounding the project site include residences and school-related uses none of which handle or emit significant amounts of hazardous materials. Any future construction within one-quarter mile of the project site, which would take place after project implementation, would be subject to their own CEQA review.

Therefore, this impact would be less than significant.

d. Would the project 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?

According to the Department of Toxic Substances Envirostor website, the proposed project is located on a site that is included on a list of hazardous materials sites (school

investigation site). With implementation of **Mitigation Measure HAZ-1**, the remediation action would be closed, and this impact would be less than significant.

e. Would the project be located within an airport land use plan or, where such a plan has not been adopted, within 2 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?

As discussed in the Phase 1 Environmental Site Assessment prepared for the project (Padre 2018), review of the California Department of Transportation (Caltrans) Division 2016 California Public Use Airports and Federal Airfields Map; the USGS topographic map, Gilroy Quadrangle, California, 1955 (revised 1993); and the Google Earth satellite image dated March 2017 indicated no airports were identified within two nautical miles of the project site. The nearest public or public use airport to the project area is the Hollister Municipal Airport, which is more than 15 miles south of the project area. There would be no impact associated with proximity to a public airport and/or exposure of people residing or working in the area to noise from the airport.

f. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Modification to the existing site would be made in accordance with current building and fire codes and the project would be approved by the Division of the State Architect to avoid unsafe building conditions. The proposed project would not impair or interfere with the implementation of local or any statewide emergency response or evacuation plans; therefore, this impact would be less than significant.

g. Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

The California Department of Forestry and Fire Protection (CALFIRE) developed Fire Hazard Severity Zones (FHSZ) for State Responsibility Areas (SRA) and Local Responsibility Areas (LRA). The project site is located in an LRA area with a Non-Very High FHSZ designation area. Therefore, the project would not result in exposure of people or structures to significant risk of loss injury or death as a result of wildland fire hazards.

h. Is the property line of the proposed school site less than the following distances from the edge of respective powerline easements: (1) 100 feet of a 50-133 kV line; (2) 150 feet of a220-230 kV line; or (3) 350 feet of a 500-550 kV line?

Pursuant to CCR, Title 5, Section 14010(c), the property line for a new school site shall not be the following minimum distances from the edge of a high-voltage power line easement: 100 feet for 50-133 kilovolt (kV) lines; 150 feet for 220-230 kV lines; and 350 feet for 500-550 kV lines. According to Pacific Gas and Electric (PG&E), the project site is not located within 100 feet from the edge of an easement for a 50-133 kV line; 150 feet from the edge of an easement for a 220-230kV line; or 350 feet from the edge of an easement for a 500-550kV line (Padre 2018). Therefore, there are no CDE setback requirements for the project site. This impact would be less than significant.

i. Is the proposed school site located near an aboveground water or fuel storage tank or within 1,500 feet of an easement of an aboveground or underground pipeline that can pose a safety hazard to the site?

During the reconnaissance conducted on April 5, 2018, no aboveground water and/or fuel storage tanks were observed at or adjacent to the project site (Padre 2018). According to PG&E, there are two high-pressure natural gas pipelines located within 1,500 feet of the project site, and according to the U.S. DOT Pipeline and Hazardous Materials Safety Administration (PHMSA), there are no hazardous liquid pipelines located within 1,500 feet of the project site. According to the National Pipeline Mapping System, the natural gas pipelines are located south of I.O.O.F. Avenue and west of Monterey Road. The proposed project is a modernization project for an existing school campus. Because the proposed project would not site a new school within 1,500 feet of water/fuel storage tanks or pipelines, construction and operation of the project would result in a less-than-significant impact with regard to safety hazards.

j. Is the school site in an area designated in a city, county, or city and county general plan for agricultural use and zoned for agricultural production, and if so, do neighboring agricultural uses have the potential to result in any public health and safety issues that may affect the pupils and employees at the school site? (Does not apply to school sites approved by CDE prior to January 1, 1997.)

The project site is designated as Public and Quasi-Public Facility on the City of Gilroy General Plan Land Use Map (City of Gilroy 2020a). Parcels surrounding the project site are designated as Low-Density Residential, General Services Commercial, and Downtown Corridor land uses. The nearest parcels designated and zoned for Rural County use are more than 1,500 feet east of the project area (east of U.S. 101).

As discussed in response 3.9.1(c), the project site had previously been under agricultural operation; however, the site has been tested for the presence of agricultural products. With implementation of **Mitigation Measure HAZ-1**, contaminated soils would be removed from the proposed project site, and this impact would be less than significant.

k. Does the project site contain a current or former hazardous waste disposal site or solid waste disposal site and, if so, have the wastes been removed?

The Phase I ESA prepared for the project site found no evidence of the site having been used as a waste disposal site. No impact would occur.

l. If a response action is necessary and proposed as part of this project, has it been developed to be protective of children's health, with an ample margin of safety?

As discussed in response 3.9.1(c), the project site had previously been under agricultural operation; however, the site has been tested for the presence of agricultural products. With implementation of **Mitigation Measure HAZ-1**, contaminated soils would be removed from the proposed project site, and this impact would be less than significant.

3.9.2 Mitigation Measure

Mitigation Measure HAZ-1: The waste material shall be profiled, and approval shall be received before soil is transported off-site for lawful disposition. The stockpiled soil shall be loaded into trucks, transported, and properly disposed of at an approved landfill. Based on the analytical results gathered during the Removal Action Work Plan, it is anticipated that the removed soil will be disposed of as non-hazardous waste.

Final determination of the disposal facility shall be based on approval from the landfill. Once the disposal facility is selected, copies of waste profile reports used to secure disposal permission from the landfill shall be provided to DTSC and included in the removal action completion report. In addition, compliance with the land disposal restrictions and land ban requirements for hazardous wastes shall be documented and provided once it is determined which disposal facility will be used.

3.10 HYDROLOGY AND WATER QUALITY

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	☐	☒	☐	☐
b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
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 erosion or siltation on- or off-site;	☐	☐	☒	☐
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?	☐	☐	☒	☐
d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	☐	☐	☐	☒
e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	☐	☐	☒	☐

3.10.1 Impact Analysis

a. Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

Development of a property may result in two types of water quality impacts: (1) short-term impacts due to construction related discharges; and (2) long-term impacts from operation or changes in site runoff characteristics. Runoff may carry on-site surface pollutants to water bodies such as lakes, streams, and rivers that ultimately drain to the ocean. Projects that increase urban runoff may indirectly increase local and regional flooding intensity and erosion.

Non-stormwater discharges could result from activities such as discharge or accidental spills of hazardous substances such as fuels, oils, petroleum hydrocarbons, concrete, paints, solvents, cleaners, or other construction materials. Erosion and construction-related wastes have the potential to temporarily degrade existing water quality and beneficial uses by altering the dissolved oxygen content, temperature, pH, suspended sediment and turbidity levels, or nutrient content, or by causing toxic effects in the aquatic environment. Therefore, if uncontrolled, project-related construction activities could violate water quality standards.

As required by the State Water Resources Control Board's (SWRCB) National Pollutant Discharge Elimination System (NPDES) General Permit for stormwater discharges associated with construction and land disturbance activities, the District must develop and implement a SWPPP that specifies BMPs to prevent construction pollutants from contacting stormwater, with the intent of keeping all products of erosion from moving offsite. The District would be required to comply with the Construction General Permit because project-related construction activities would result in soil disturbances of at least 1 acre of total land area. **Mitigation Measure HYD-1** requires the preparation and implementation of a SWPPP to comply with the Construction General Permit requirements.

With implementation of **Mitigation Measure HYD-1**, the project would not violate any water quality standards or waste discharge requirements (WDRs) during the construction period, and impacts would be less than significant.

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

According to the Santa Clara Valley Water District 2016 Groundwater Management Plan, the proposed project area is located in the Llagas Subbasin Confined Area. The confined area is located in an area that restricts the vertical flow of groundwater and contaminants. Therefore, the proposed project would not substantially impede groundwater recharge. The proposed project would not require dewatering or use of groundwater supplies during construction or operation. This impact would be less than significant.

c. Would the project 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 erosion or siltation on- or off-site;

The proposed project would not alter the course of a stream or river. However, grading and development of the project site with the school buildings, walkways, sports fields and recreation areas, and parking lots would substantially and permanently alter the on-site drainage pattern thereby increasing the potential for on-site and off-site erosion and sedimentation and increasing the amount of surface runoff through the addition of impervious surfaces.

Development of impervious surfaces incrementally reduces the amount of natural soil surfaces available for the infiltration of rainfall and runoff. As a result, the frequency, volume, and flow rate of stormwater runoff increases, potentially resulting in on-site flooding, downstream flooding, or potentially contributing to runoff that exceeds the capacity of the existing drainage system in the vicinity of the project site. The majority of the project site, much like its existing condition, would be covered by impervious surfaces in the form of building foundations, hardcourt areas, walkways, and parking lots. Landscaped areas and sports fields would be undeveloped and would provide infiltration of stormwater and reduce the volume of stormwater flowing off-site.

The proposed amount of impervious surface is consistent with the amount of existing impervious surfaces. Therefore, the drainage facilities that serve the project site would continue to provide storm drainage capacity for the project. Impacts associated with erosion or siltation would be less than significant.

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

See response 3.10.1(c)(i).

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

See response 3.10.1(c)(i). Implementation of the proposed project would increase the amount of impervious surface within the project area; however, the project has been designed to accommodate stormwater without increasing the rate or amount of surface runoff in exceedance of the capacity of existing or planned stormwater drainage systems. This impact would be less than significant.

iv. Impede or redirect flood flows?

The proposed project area is located in an area designated as Zone X (Area of Minimal Flood Hazard) on the Federal Emergency Management Agency (FEMA) Flood Map 06085C0639H (effective 5/18/2009). Due to the location of the proposed project outside of a flood hazard zone, development of the proposed project is not anticipated to impede or redirect flood flows. This impact is considered less than significant.

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

The proposed project site is not located within a FEMA designated 100-year floodplain. In addition, the project site is generally level and is not immediately adjacent to any hillsides. As such, the risk from flooding would be low. Furthermore, no enclosed bodies of water are in close enough proximity that would create a potential risk for seiche or a tsunami at the project site. Therefore, there would be no impact related to potential hazards from inundation from flood, tsunami, or seiche.

e. Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Pollutants of concern during construction include sediment, trash, petroleum products, concrete waste (dry and wet), sanitary waste, and chemicals. Each of these pollutants on its own or in combination with other pollutants can have a detrimental effect on water quality. During construction activities, excavated soil would be exposed, and there would be an increased potential for soil erosion and sedimentation compared to existing conditions. In addition, chemicals, liquid products, petroleum products (such as paints, solvents, and fuels), and concrete-related waste may be spilled or leaked during construction. These

pollutants may percolate to shallow groundwater from construction activities. However, required compliance with State and local regulations regarding stormwater and dewatering during construction would ensure that the proposed project would result in less-than-significant impacts to water quality during construction.

During operation of the proposed project, stormwater runoff would drain into the City's drainage system. The proposed project would not conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan. This impact is considered less than significant.

Mitigation Measure HYD-1: Prior to ground-disturbing activities, the District shall prepare and implement a Stormwater Pollution Prevention Plan (SWPPP) that specifies best management practices (BMPs) with the intent of keeping all products of erosion from moving offsite. The SWPPP shall include a site map that shows the construction site perimeter, existing and proposed man-made facilities, stormwater collection and discharge points, general topography both before and after construction, and drainage patterns across the project site. Additional the SWPPP shall contain a visual monitoring program and a chemical monitoring program for non-visible pollutants to be implemented (if there is a failure of BMPs). The requirements of the SWPPP and BMPs shall be incorporated into design specifications and construction contracts. Recommended BMPs for the construction phase may include the following:

- Stockpiling and disposing of demolition debris, concrete, and soil properly;
- Protecting any existing storm drain inlets and stabilizing disturbed areas;
- Implementing erosion controls;
- Properly managing construction materials; and
- Managing waste, aggressively controlling litter, and implementing sediment controls.

3.11 LAND USE AND PLANNING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Physically divide an established community?	☐	☐	☐	☒
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 Impact Analysis

a. Would the project physically divide an established community?

The project would be located on a parcel developed as an existing middle school campus, which is surrounded by residential uses. Connectivity between the project site and surrounding areas would be maintained, and no division of an established community would occur. Therefore, no impact would occur.

b. Would the project 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?

The project site is zoned as PF Park/Public Facility and identified as a Public/Quasi-Public Facility in the City of Gilroy General Plan. The project does not propose to change the site's existing zoning or land use designation. The proposed project would comply with applicable land use requirements, policies, zoning, and development standards as required by California law for school districts, and adhere to other applicable state codes and regulations.

The project site is not subject to a specific plan or local coastal program. For these reasons, the project would not conflict with any existing state, regional, county, or local laws, policies, regulations, plans or guidelines. Therefore, this impact would be less than significant.

3.12 MINERAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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?	☐	☐	☐	☒
c. 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 Impact Analysis

a. Would the project 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?

According to the City of Gilroy General Plan, there are no mapped mineral resources in the City and no regulated mine facilities as of June 2020 (City of Gilroy 2020b).

The proposed project would include the modernization of the proposed school site. Based on available data, a mineral resource loss associated with project implementation is not anticipated. Therefore, implementation of the proposed project would not result in the loss of known mineral resources or recovery sites. Therefore, no impact would occur.

b. Would the project 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?

Refer to response 3.12.1(a). Implementation of the proposed project would not result in the loss of availability of a locally-important mineral resource recovery site. Therefore, no impact would occur.

3.13 NOISE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 applicable standards of other agencies?	☐	☒	☐	☐
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 2 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?	☐	☐	☐	☒
d. Is the proposed school site located adjacent to or near a major arterial roadway or freeway whose noise generation may adversely affect the education program?	☐	☐	☒	☐

3.13.1 Impact Analysis

a. Would the project result in 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 applicable standards of other agencies?

Noise is usually defined as unwanted sound. Noise consists of any sound that may produce physiological or psychological damage and/or interfere with communication, work, rest, recreation, or sleep. Several noise measurement scales exist that are used to describe noise in a particular location. A decibel (dB) is a unit of measurement that indicates the relative intensity of a sound. Sound levels in dB are calculated on a logarithmic basis. An increase of 10 dB represents a 10-fold increase in acoustic energy, while 20 dB is 100 times more intense and 30 dB is 1,000 times more intense. Each 10 dB increase in sound level is perceived as approximately a doubling of loudness; and similarly, each 10 dB decrease in sound level is perceived as half as loud. Sound intensity is normally measured through the A-weighted sound level (dBA). This scale gives greater weight to the frequencies of sound to which the human ear is most sensitive. The A-weighted sound level is the basis for 24-hour sound measurements that better represent human sensitivity to sound at night.

As noise spreads from a source, it loses energy so that the farther away the noise receiver is from the noise source, the lower the perceived noise level would be. Geometric spreading causes the sound level to attenuate or be reduced, resulting in a 6 dB reduction in the noise level for each doubling of distance from a single point source of noise to the noise sensitive receptor of concern.

There are many ways to rate noise for various time periods, but an appropriate rating of ambient noise affecting humans also accounts for the annoying effects of sound. Equivalent

continuous sound level (L_{eq}) is the total sound energy of time varying noise over a sample period. However, the predominant rating scales for human communities in the State of California are the L_{eq}, the community noise equivalent level (CNEL), and the day-night average level (L_{dn}) based on dBA. CNEL is the time varying noise over a 24-hour period, with a 5 dBA weighting factor applied to the hourly L_{eq} for noises occurring from 7:00 p.m. to 10:00 p.m. (defined as relaxation hours) and 10 dBA weighting factor applied to noise occurring from 10:00 p.m. to 7:00 a.m. (defined as sleeping hours). L_{dn} is similar to the CNEL scale, but without the adjustment for events occurring during the evening relaxation hours. CNEL and L_{dn} are within one dBA of each other and are normally exchangeable. The noise adjustments are added to the noise events occurring during the more sensitive hours.

A project would have a significant noise effect if it would substantially increase the ambient noise levels for adjoining areas or conflict with adopted environmental plans and goals of applicable regulatory agencies, including, as appropriate, the City of Gilroy.

The City's General Plan provides guiding policies that strive to achieve an acceptable noise environment, ensure new development is compatible with the noise environment, and protect especially sensitive uses from excessive noise, including schools, hospitals, and senior care facilities. The following policies are applicable to the proposed project:

- PH 6.10 Construction Noise Require proposed development projects subject to discretionary approval to assess potential construction noise impacts on nearby sensitive uses and to minimize impacts on those uses, to the extent feasible.

- PH 6.11 Construction and Maintenance Noise Limits Limit the hours of construction and maintenance activities to the less sensitive hours of the day (7:00am to 7:00pm Monday through Friday and 9:00am to 7:00 pm on Saturdays). Construction hours that vary from these timeframes may be approved by the Building Official, in conformance with Article XVI. Hours of Construction of the Gilroy City Code.

Certain land uses are considered more sensitive to noise than others. Examples of these sensitive land uses include residential areas, educational facilities, hospitals, childcare facilities, and senior housing. The proposed project site is surrounded by residential uses to the north, east, and south beyond I.O.O.F. Avenue and Murray Avenue.

Short-Term (Construction) Noise Impacts. Project construction would result in short-term noise impacts on the nearby sensitive receptors. Maximum construction noise would be short-term, generally intermittent depending on the construction phase, and variable depending on receiver distance from the active construction zone. The duration of noise impacts generally would be from one day to several days depending on the phase of construction. The level and types of noise impacts that would occur during construction are described below.

Short-term noise impacts would occur during grading and site preparation activities. Table 4 lists typical construction equipment noise levels (L_{max}) recommended for noise impact assessments, based on a distance of 50 feet between the equipment and a noise receptor, obtained from the Federal Highway Administration (FHWA) Roadway Construction Noise Model. Construction-related short-term noise levels would be higher than existing ambient

noise levels currently in the project area but would no longer occur once construction of the project is completed.

Table 4: Typical Construction Equipment Noise Levels

Equipment Description	Acoustical Usage Factor (%)	Maximum Noise Level (L_{max}) at 50 Feet[1]
Backhoes	40	80
Compactor (ground)	20	80
Compressor	40	80
Cranes	16	85
Dozers	40	85
Dump Trucks	40	84
Excavators	40	85
Flat Bed Trucks	40	84
Forklift	20	85
Front-end Loaders	40	80
Graders	40	85
Impact Pile Drivers	20	95
Jackhammers	20	85
Pick-up Truck	40	55
Pneumatic Tools	50	85
Pumps	50	77
Rock Drills	20	85
Rollers	20	85
Scrapers	40	85
Tractors	40	84
Welder	40	73

Source: Roadway Construction Noise Model (FHWA 2006).
Note: Noise levels reported in this table are rounded to the nearest whole number.
[1] Maximum noise levels were developed based on Spec 721.560 from the Central Artery/Tunnel (CA/T) program to be consistent with the City of Boston's Noise Code for the "Big Dig" project.
L_{max} = maximum instantaneous sound level

Two types of short-term noise impacts could occur during construction of the proposed project. The first type involves construction crew commutes and the transport of construction equipment and materials to the sites, which would incrementally increase noise levels on roads leading to the sites. As shown in Table 4, there would be a single-event noise exposure potential at a maximum level of 55 dBA L_{max} with trucks passing at 50 feet.

The second type of short-term noise impact is related to noise generated during grading and construction on the project site. Construction is performed in discrete steps, or phases, each with its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated on site. Therefore, the noise levels vary as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase.

Typical maximum noise levels range up to 87 dBA L_{max} at 50 feet during the noisiest construction phases. The site preparation phase, including excavation and grading of the site, tends to generate the highest noise levels because earthmoving machinery is the

noisiest construction equipment. Earthmoving equipment includes excavating machinery such as backfillers, bulldozers, draglines, and front loaders. Earthmoving and compacting equipment includes compactors, scrapers, and graders. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full-power operation followed by 3 or 4 minutes at lower power settings.

This analysis assumes that a bulldozer, dump truck, and backhoe would be operating simultaneously during construction of the project. Based on the typical construction equipment noise levels shown in Table 4, noise levels associated with a bulldozer, dump truck, and backhoe operating simultaneously would be approximately 88 dBA L_{max} at 50 feet.

As noted above, the project is surrounded by residential uses. It is anticipated that construction activities would occur within 50 feet of the adjoining property lines. Construction noise is permitted by the City of Gilroy when activities occur between the hours of 7:00 a.m. to 7:00 p.m. Monday through Friday and 9:00 a.m. to 7 p.m. on Saturdays. In addition, **Mitigation Measure NOI-1** would be required to limit construction activities to daytime hours and would reduce potential construction period noise impacts for the indicated sensitive receptors to a less-than-significant level.

Implementation of **Mitigation Measure NOI-1** would limit construction hours and require the construction contractor to implement noise-reducing measures during construction, which would reduce short-term construction noise impacts to a less-than-significant level.

Operational Noise Impacts. A significant impact would occur if the project would exceed established standards, including resulting in a substantial permanent increase in ambient exterior noise levels above levels existing without the project. In acoustics, every doubling of an equal sound energy would result in a 3 dBA increase in combined noise level (an increase of 3 dBA represents the lowest noise increase that is perceptible by humans outside of a laboratory environment). For the purposes of this analysis, an increase of 5 or more dBA would be significant.

Permanent increases in the ambient noise level in the project vicinity would result from vehicle noise associated with school traffic, noise made by children at play in outdoor areas, and maintenance activities. However, it should be noted that the proposed project would modernize the existing campus and noise levels are expected to be consistent with existing conditions.

The proposed school would be exposed to noise levels associated with traffic on I.O.O.F. Avenue and Murray Avenue. Given the distance of the proposed classrooms from the centerline and the volumes of traffic on I.O.O.F. Avenue and Murray Avenue, traffic noise from adjacent roads would have a less-than-significant impact on the school.

The project would include outdoor recreational areas, which would create noise for adjacent land uses. No sports fields are proposed to be illuminated for nighttime use and no amplified public address systems are proposed. Noise levels associated with playing fields can generally be expected to range from 55 to 60 dB L_{eq}, with maximum noise levels ranging from 70 to 75 dB, at a distance of 100 feet from the source. The residence nearest to the proposed track and field recreational area is approximately 95 feet from the source.

Although one residence is located within 100 feet of the proposed track and field recreation area, noise levels are not anticipated to exceed the City's performance standard of 60 dB because the recreational area would serve track meets and field events. Most activities would occur at a distance greater than 100 feet from the existing residence.

Noise associated with vocalizations would be intermittent and infrequent. This noise level is not expected to constitute a significant impact since the facilities would only be used during the daytime, when the ambient noise level in the area is higher, and since sensitivity to noise is lower during the day. The playfields would only be used during the day. The resulting noise level at the nearest noise-sensitive receptor would be 55 dB L_{eq} to 60 dB L_{eq}. The predicted noise levels from playfield activities would not exceed City's performance standard of 60 dB. With respect to ambient noise, the dominant ambient noise source in the area would be the vehicular traffic noise in the project vicinity. The routine operational use of the project site would not affect change in noise levels for existing sensitive uses. The impacts associated with routine use would be less than significant.

Landscape Maintenance

Mowers, blowers, weed cutters, and tractors would be operated onsite to maintain the project landscaping. Landscape maintenance would occur between the hours of 7:00 a.m. to 7:00 p.m. Monday through Friday, consistent with the City's Noise Ordinance; therefore, this impact would be less than significant.

b. Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Construction activities that might expose persons to excessive ground borne vibration or ground borne noise have the potential to cause a significant impact. Ground borne vibration information related to construction/heavy equipment activities has been collected by the California Department of Transportation (Caltrans). The Caltrans data indicates that transient vibrations (such as from demolition activity) with a peak particle velocity (PPV) of approximately 0.035 inches per second may be characterized as barely perceptible, and vibration levels up to 0.25 inches per second may be characterized as distinctly perceptible (Caltrans 2013). Caltrans (2013) uses a damage threshold of 0.2 inches per second PPV for conventional buildings.

Ground borne vibration is typically attenuated over relatively short distances. With the anticipated construction equipment, construction-related vibration levels would be approximately 0.127 inches per second PPV at 25 feet from the construction area (assuming simultaneous operation of a caisson drill, a jackhammer, and a small bulldozer). At 25 feet, this vibration would be above the threshold of "barely perceptible" level of 0.035 inches per second PPV; however, the nearest residence is approximately 50 feet from the nearest construction area. At a distance of 50 feet, the vibration level is not anticipated to exceed the distinctly perceptible level of 0.25 inches per second PPV (Caltrans 2013). The expected vibration level at the residential buildings is also expected to be below the Caltrans damage threshold for conventional buildings. Therefore, impacts related to ground borne vibration would be less than significant.

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 2 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?

The nearest public or public use airport to the project area is the Hollister Municipal Airport, which is more than 15 miles south of the project area. There would be no impact associated with proximity to a public airport and/or exposure of people residing or working in the area to noise from the airport.

d. Is the proposed school site located adjacent to or near a major arterial roadway or freeway whose noise generation may adversely affect the education program?

See response 3.13.1(a). The proposed school would be exposed to noise levels associated with traffic on I.O.O.F. Avenue and Murray Avenue. The nearest proposed classroom would be approximately 200 feet from the centerline of Murray Avenue and 300 feet from the centerline of I.O.O.F. Avenue (as measured from the nearest proposed building). Given the distance of the site from the centerline and the volumes of traffic on I.O.O.F. Avenue (5,229 average daily traffic in 2018) and Murray Avenue (8,172 average daily traffic in 2018) (W-Trans 2021), traffic noise from adjacent roads would have a less-than-significant impact on the school.

3.13.2 Mitigation Measures

Mitigation Measure NOI-1: The project contractor shall implement the following measures during construction of the proposed project:

- Equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers consistent with manufacturers' standards.
- Place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the active project site.
- Locate equipment staging in areas that would create the greatest possible distance between construction-related noise sources and noise-sensitive receptors nearest the active project site during all construction activities.
- Ensure that all general construction related activities are restricted to between the hours of 7:00 a.m. to 7:00 p.m. Monday through Friday.
- Designate a "disturbance coordinator" at the District who would be responsible for responding to any local complaints about construction noise. The disturbance coordinator would determine the cause of the noise complaint (e.g., starting too early, bad muffler) and would determine and implement reasonable measures warranted to correct the problem.

3.14 POPULATION AND HOUSING

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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)?	☐	☐	☐	☒
e. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☐	☒

3.14.1 Impact Analysis

a. Would the project 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)?

The project does not include the construction of dwellings or an increase in the resident population of the surrounding area. Project implementation would meet the demands of projected population growth in the project area by providing accommodation for students. As such, the project would have no impact on direct or indirect population growth.

b. Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

The project site is currently developed as the existing South Valley Middle School campus; therefore, no dwelling units would be displaced from project implementation. The project would have no impact.

3.15 PUBLIC SERVICES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
i. Fire protection?	☐	☐	☒	☐
ii. Police protection?	☐	☐	☒	☐
iii. Schools?	☐	☐	☐	☒
iv. Parks?	☐	☐	☐	☒
v. Other public facilities?	☐	☐	☐	☒
b. Does the site promote joint use of parks, libraries, museums, and other public services?	☐	☐	☒	☐

3.15.1 Impact Analysis

a. *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:*

i. Fire protection?

The proposed project would be served by the Gilroy Fire Department (GFD), Chestnut Station (7070 Chestnut Street) approximately 0.9 mile south of the project site.

The GFD would provide fire protection services to the project site. The project would incorporate California Fire Code requirements into project designs. These standards address access road length, dimensions, and finished surfaces for firefighting equipment; fire hydrant placement; fire flow availability and requirements; and plan submittal requirements. In addition, the California Fire Code requires that every public or private school building having an occupant load of 50 or more students or more than one classroom have an automatic fire alarm system using the California Fire Code Signal outlined in the California Education Code (Sections 32000–32004). Furthermore, the California Education Code requires new schools to install an automatic fire sprinkler system (Section 17074.52).

Incorporation of all California Fire Code requirements into project designs would reduce the dependence on fire department equipment and personnel by reducing fire hazards. Therefore, the proposed project would not affect the GFD's response times or other performance objectives and would not cause in the construction of new or expansion of

existing fire protection facilities that result in environmental effects. The impacts on fire protection services would be less than significant.

ii. Police protection?

The project would also be served by the Gilroy Police Department (7301 Hanna Street) approximately 0.75 miles southeast of the Site.

The site would be lit at night for security purposes as a way to discourage crime. It is not expected that the proposed project would substantially increase the Gilroy Police Department's calls for service. Therefore, the proposed project would not affect the Gilroy Police Department's performance objectives and would not cause the construction of new or expansion of existing police protection facilities that result in environmental effects. Therefore, the project would have a less than significant impact.

iii. Schools?

The project would not increase the demand for or cause a shortfall of school services or facilities. Rather, the proposed project would continue to accommodate students living in the attendance area. Therefore, the project would have no impact.

v. Parks?

The proposed project does not include the construction of structures that would increase the population in the area or that would generate a higher demand for parks or other public facilities. Therefore, the demand for parks for the project would be the same as under existing conditions. No impact to parks would occur.

v. Other public facilities?

The proposed project does not include the construction of structures that would increase the population in the area or that would generate a higher demand for other public facilities. Therefore, the demand for public facilities for the project would be the same as under existing conditions. No impact to public facilities would occur.

b. Does the site promote joint use of parks, libraries, museums, and other public services?

The Civic Center Act, as defined in the State of California Education Code Sections 38130-38139, describes the uses of school facilities, including all buildings and grounds for public purposes, and the fees that may be assessed. Section 38131(b)(1) states:

> "(b) The governing board of any school district may grant the use of school facilities or grounds as a civic center upon the terms and conditions the board deems proper, subject to the limitations, requirements, and restrictions set forth in this article, for any of the following purposes:(1) Public, literary, scientific, recreational, educational, or public agency meetings . . .(6) Supervised recreational activities including, but not limited to, sports league activities for youths that are arranged for and supervised by entities, including religious organizations or churches, and in which youths may

participate regardless of religious belief or denomination" (California Education Code 1996).

The proposed school would be available for use per Civic Center Act requirements. Therefore, the project does promote the joint use of athletic facilities located onsite. This impact would be less than significant.

3.16 RECREATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
a. Would the project 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. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	☐	☒	☐	☐

3.16.1 Impact Analysis

a. Would the project 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?

The increase in use of recreational facilities is generally a result of population growth. The proposed project includes the modernization of an existing middle school campus. The project would serve the region's existing population and would not induce population growth. Therefore, there would be no impact on existing neighborhood or regional parks and facilities.

b. Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Recreational facilities proposed as part of the project include sports fields and recreation areas. Construction of these facilities would result in the potentially significant physical environmental impacts, as outlined in this document. These impacts are addressed in relevant sections throughout this Initial Study/Mitigation Negative Declaration (IS/MND) in connection with discussions of the impacts of overall site development. Mitigation measures are identified for potentially significant impacts to ensure those impacts are reduced to a less-than-significant level. There are no additional significant impacts beyond those comprehensively considered throughout the other sections of this IS/MND. Therefore, physical effects associated with construction of the proposed project, including recreational areas, would be less than significant with incorporation of mitigation identified in this IS/MND.

3.17 TRANSPORTATION

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 §15064.3, subdivision (b)?	☐	☐	☒	☐
c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☒	☐	☐
d. Result in inadequate emergency access?	☐	☐	☒	☐
e. Is the proposed school site within 1,500 feet of a railroad track easement?	☐	☐	☐	☒
f. Is the site easily accessible from arterials and is the minimum peripheral visibility maintained for driveways per Caltrans' Highway Design Manual?	☐	☐	☐	☒
g. Are traffic and pedestrian hazards mitigated per Caltrans' School Area Pedestrian Safety manual?	☐	☐	☒	☐

3.17.1 Impact Analysis

a. Would the project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

The Gilroy Unified School District contracted with W-Trans to prepare a focused traffic study for the proposed project.

The W-Trans study noted that the Santa Clara Valley Transportation Authority (VTA) Route 68 provides local bus service between the Gilroy Transit Center and San Jose Diridon Station via Monterey Road. This route operates daily with buses every 15 to 20 minutes from 4:30 a.m. to 12:00 a.m. on weekdays and from 5:00 a.m. to 12:00 a.m. on weekends. The nearest stop is located on Monterey Road approximately 1,500 feet from the South Valley Middle School campus. The proposed project would not conflict with existing transit service.

Additionally, the proposed project would not obstruct existing bicycle and pedestrian facilities near the proposed project site. This impact would be less than significant.

b. Would the project conflict or be inconsistent with CEQA Guidelines §15064.3, subdivision (b)?

On September 27, 2013, Governor Jerry Brown signed SB 743 into law and started a process that changes the methodology of a transportation impact analysis as part of CEQA requirements. SB 743 directed the California Office of Planning and Research to establish new CEQA guidance for jurisdictions that removes the level of service (LOS) method, which

focuses on automobile vehicle delay and other similar measures of vehicular capacity or traffic congestion, from CEQA transportation analysis.

Rather, vehicle miles traveled (VMT), or other measures that promote “the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses,” are now be used as the basis for determining significant transportation impacts in the State.

The proposed project would be expected to result in no net change in VMT since the number of enrolled students would not increase with the campus modernization plan nor would the attendance boundaries change. Future students are likely to have similar travel patterns as current students, further strengthening the conclusion that the project would result in no net change to the total vehicle miles traveled.

Based on this assessment, the proposed campus modernization can be classified as a local-serving land use and as having no net change in VMT. Based on the previously summarized standards, the proposed project would result in a less-than-significant VMT impact.

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

Vehicular access to the school is currently provided by five driveways on I.O.O.F Avenue. There are also three driveways located on Murray Avenue serving four auxiliary buildings unrelated to school operations. The proposed campus modernization plan would reconfigure the campus by removing the auxiliary non-school buildings and orienting the front of the school so that it faces Murray Avenue. Under the proposed plan, there would be one ingress-only driveway and one egress-only driveway on I.O.O.F Avenue and two ingress-only driveways and two egress-only driveways on Murray Avenue, as shown in the enclosed preliminary site plan.

The proposed campus improvements would include three separate parking lots. The north parking lot adjacent to Murray Avenue would be designated for staff parking and school bus access only. The south parking lot on Murray Avenue would serve as the primary student drop-off and pick-up area. The remaining parking lot along I.O.O.F. Avenue would be designated for staff use only; student drop-off and pick-ups would be discouraged or prohibited within this area.

The curbside student drop-off and pick-up area may become congested during the morning and afternoon periods immediately before and after school operating hours. To alleviate the anticipated congestion, vehicles exiting the driveway may be limited to right-turn movements only. Additionally, a continuous two-way left-turn lane may be striped along the segment of Murray Avenue adjacent to the school.

As the project would comply with DSA design standards, it would not include any design features that would create traffic hazards. Additionally, there are no incompatible uses, including farm operations, in the vicinity that would cause traffic hazards.

To maintain adequate site distance from the proposed parking lots, the proposed project would implement **Mitigation Measure TRANS-1**, which would reduce impacts related to site distance to a less-than-significant level.

Bus drop-off areas are separated from parent drop-off areas and parking lots, according to the proposed site plan. To maximize efficient egress from the drop-off and pick-up lane area in the south parking lot, the driveway exit onto Murray Avenue would be limited to right-turn movements only.

The school would include an internal pedestrian pathway system. School development would not create barriers to pedestrians or bicyclists.

All new driveway construction would be subject to approvals by the DSA. Through DSA plan check reviews, the project would comply with all regulations regarding roadway design, thus minimizing any potential impacts from traffic safety hazards. Project impacts would be less than significant.

d. Would the project result in inadequate emergency access?

Project parking lots and vehicular routes, including emergency vehicle access, would be provided near all proposed buildings on-site, according to the proposed project site plan. Emergency access would not be adversely affected as a result of the project.

Arterial and collector streets are primary routes for emergency travel throughout the City. While occasional congestion is expected to occur during peak-use periods, the project would contribute a very small portion of traffic during the afternoon peak since this period is outside of the normal school day. The impact is less than significant.

e. Is the proposed school site within 1,500 feet of a railroad track easement?

The project area is located approximately 0.11 mile (600 feet) west of the existing Caltrain line. The proposed project would modernize the existing school campus and would not cite a new school facility in proximity to the Caltrain line. This impact would be less than significant.

f. Is the site easily accessible from arterials and is the minimum peripheral visibility maintained for driveways per Caltrans' Highway Design Manual?

The proposed project site is located on I.O.O.F. Avenue and Murray Avenue. The primary access to the project site would be provided on Murray Avenue, located along the eastern boundary of the site. As no changes to existing streets and access driveways are proposed, no impacts related to access and peripheral visibility would occur.

g. Are traffic and pedestrian hazards mitigated per Caltrans' School Area Pedestrian Safety manual?

Currently, walkways exist in the vicinity of the proposed project site along I.O.O.F. Avenue and Murray Avenue. The proposed project does not include modification to existing

pedestrian facilities but would include an additional crosswalk on Murray Avenue adjacent to the main entrance to the school at Polk Court. This crosswalk would be placed approximately 360 feet north of the existing crosswalk at I.O.O.F. Avenue and would provide more direct access between the school and the neighborhood east of Murray Avenue; therefore, this impact would be less than significant.

3.17.2 Mitigation Measures

Mitigation Measure TRANS-1: To maintain a minimum sight distance of 150 feet at each driveway access point, the District shall maintain any vegetation near the project's driveways to an appropriate height of less than three feet and trees trimmed so that no branches remain below a height of seven feet from the surface of the roadway. Also, on-street parking shall be restricted for at least 40 feet on both sides of each driveway.

3.18 TRIBAL CULTURAL RESOURCES

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
Would the project:				
a. 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:				
i. 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)? Or	☐	☐	☒	☐
ii. 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 Impact Analysis

a. *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:*

   i. *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)? Or*

   The District requested a Sacred Lands Inventory on file with the Native American Heritage Commission (NAHC), which concluded negative results (i.e., no sacred lands were identified in the project site). Based on the list provided by the NAHC, on April 23, 2019, the District notified five Native American tribal representatives consistent with AB 52 requirements; no responses have been received. However, in the unlikely event that unrecorded resources are discovered during construction activities, compliance with the California Public Resources Code would reduce this potential impact to less than significant.

   ii. *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.

The District requested a Sacred Lands Inventory on file with the NAHC, which concluded negative results (i.e., no sacred lands were identified in the project site). Based on the list provided by the NAHC, on April 23, 2019, the District notified five Native American tribal representatives consistent with AB 52 requirements; no responses have been received. However, in the unlikely event that unrecorded resources are discovered during construction activities, compliance with the California Public Resources Code would reduce this potential impact to less than significant.

3.19 UTILITIES AND SERVICE SYSTEMS

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

3.19.1 Impact Analysis

a. Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

The proposed project would not require the relocation or construction of new or expanded water, wastewater, electric power, natural gas, or telecommunications facilities. This impact would be less than significant.

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

The proposed project would include modernization features for the existing school campus. This would include the installation of water conserving toilets and irrigation. The proposed project is not expected to exceed the current water usage at the site. This impact would be less than significant.

c. Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

The proposed project would include modernization features for the existing school campus. The proposed project is not expected to exceed the current wastewater treatment requirements at the site. This impact would be less than significant.

d. Would the project 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?

Project construction would involve site clearing and the generation of various construction wastes, including scrap lumber, scrap finishing materials, various scrap metals, and other recyclable and nonrecyclable construction-related wastes. The 2016 CALGreen Code (Title 24, Part 11 of the California Code of Regulations) requires all construction contractors to reduce construction waste and demolition debris by 65 percent. Code requirements include preparing a construction waste management plan that identifies the materials to be diverted from disposal by efficient usage, recycling, reuse on the project, or salvage for future use or sale; determining whether materials will be sorted on-site or mixed; and identifying diversion facilities where the materials collected will be taken. The code also specifies that the amount of materials diverted should be calculated by weight or volume, but not by both (California Building Standards Commission 2016). In addition, the 2016 CalGreen Code requires that 100 percent of trees, stumps, rocks, and associated vegetation and soils resulting primarily from land clearing be reused or recycled.

Additionally, project operation would result in long-term generation of solid waste, consistent with the existing solid waste generation rates at the project site.

The project would comply with all statues and regulations related to solid waste. Compliance with the CalGreen Code and Assembly Bill 1826 would ensure that sufficient landfill capacity would be available to accommodate solid-waste disposal needs for future development. Therefore, the project would have a less-than-significant impact.

e. Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

The California Integrated Waste Management Act of 1989 (AB 939) redefined solid waste management in terms of both objectives and planning responsibilities for local jurisdictions and the state. AB 939 was adopted in an effort to reduce the volume and toxicity of solid waste that is landfilled and incinerated, by requiring local governments to prepare and implement plans to improve the management of waste resources. AB 939 required each of the cities and unincorporated portions of the counties throughout California to divert a minimum of 25 percent of the solid waste sent to landfills by 1995 and 50 percent by the year 2000. To attain goals for reductions in disposal, AB 939 established a planning hierarchy using new integrated solid waste management practices.

Section 5.408 of the 2013 California Green Building Standards Code (Title 24, California Code of Regulations, Part 11) requires that at least 50 percent of the nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse. Any businesses, including public entities, generating four cubic yards or more of commercial solid waste per week, must arrange recycling services.

The project would comply with AB 939 (Zero Waste program) and other applicable local, State, and federal solid waste disposal standards, thereby ensuring that the solid waste stream to regional landfills is reduced in accordance with existing regulations. Therefore, this impact would be less than significant.

3.20 WILDFIRE

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

3.20.1 Impact Analysis

a. Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

Wildland fires occur in geographic areas that contain the types and conditions of vegetation, topography, weather, and structure density susceptible to risks associated with uncontrolled fires that can be started by lightning, improperly managed camp fires, cigarettes, sparks from automobiles, and other ignition sources.

According to the California Department of Forestry and Fire Protection Very High Fire Hazard Severity Zone (VHFHSZ) Map for Santa Clara County, the project site is not located within a VHFHSZ. Therefore, the proposed project would not expose people to significant risk of loss, injury, or death due to wildland fires and this impact would be less than significant.

As discussed in response 3.9.1(f), implementation of the proposed project would not interfere with an adopted emergency response plan or emergency evacuation plan and would not alter any of the streets within, or adjacent to, the project site. Therefore, implementation of the proposed project would not substantially impair an adopted emergency response plan or emergency evacuation plan and impacts would be less than significant.

b. Would the project, 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?

The project site is not located in or near a VHFHSZ nor is it located in or near a State Responsibility Area (SRA). Therefore, implementation of the proposed project would not exacerbate wildfire risks due to slope and prevailing winds, thereby exposing project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire. As a result, a less-than-significant impact would occur, and no mitigation would be required.

c. Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

The proposed project would not require the installation or maintenance of infrastructure that may exacerbate fire risk. No impact would occur.

d. Would the project 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?

Landslides and other forms of mass wasting, including mud flows, debris flows, and soil slips, occur as soil moves downslope under the influence of gravity. Landslides are frequently triggered by intense rainfall or seismic shaking but can also occur as a result of erosion and downslope runoff caused by rain following a fire. Because the proposed project site is level, the proposed project would not expose people or structures to potential substantial adverse effects associated with landslides. Further, the proposed project site is not located in or near a VHFHSZ nor is it located in or near a SRA. Therefore, the proposed project would not 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. As a result, a less-than-significant impact would occur, and no mitigation would be required.

3.21 MANDATORY FINDINGS OF SIGNIFICANCE

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
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 a rare or endangered plant or animal 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 which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

3.21.1 Impact Analysis

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 a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Implementation of the mitigation measures recommended in this IS/MND would ensure that construction and operation of the proposed project would not substantially degrade the quality of the environment; reduce the habitat, population, or range of a plant or animal species; or eliminate important examples 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)?

The potential impacts of the proposed project are individually limited and are not cumulatively considerable. Implementation of mitigation measures recommended in this report would reduce potentially significant impacts that could become cumulatively considerable.

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

The proposed project would be constructed and operated in accordance with all applicable regulations governing hazardous materials, noise, and geotechnical considerations. Because all potentially significant impacts of the proposed project are expected to be mitigated to less-than-significant levels, it is unlikely that implementation of the proposed project would cause substantial adverse effects on human beings. As a result, less-than-significant impacts would occur with implementation of the recommended mitigation measures.

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APPENDIX A

CALEEMOD REPORT

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South Valley Middle School Phase 1

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	0.00		9.20	42,238.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2022
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Phase 1 is 9.2 acres.

Trips and VMT - Added total # of hauling trips, building construction, paving, and architectural coating. Assumes 21 truckloads for remediation.

Architectural Coating - Anticipated interior/exterior space

Area Coating - Anticipated acreages and square footage.

Sequestration -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblSequestration	NumberOfNewTrees	0.00	80.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	24.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblTripsAndVMT	HaulingTripLength	20.00	46.00
tblTripsAndVMT	HaulingTripNumber	0.00	36.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1784	1.7199	1.3843	2.5000e-003	0.1695	0.0874	0.2568	0.0870	0.0815	0.1685	0.0000	218.2519	218.2519	0.0532	0.0000	219.5815
2022	0.3460	1.1545	1.2340	2.1700e-003	0.0134	0.0576	0.0710	3.6300e-003	0.0541	0.0578	0.0000	188.2585	188.2585	0.0423	0.0000	189.3153
Maximum	**0.3460**	**1.7199**	**1.3843**	**2.5000e-003**	**0.1695**	**0.0874**	**0.2568**	**0.0870**	**0.0815**	**0.1685**	**0.0000**	**218.2519**	**218.2519**	**0.0532**	**0.0000**	**219.5815**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1784	1.7199	1.3843	2.5000e-003	0.1695	0.0874	0.2568	0.0870	0.0815	0.1685	0.0000	218.2517	218.2517	0.0532	0.0000	219.5813
2022	0.3460	1.1545	1.2340	2.1700e-003	0.0134	0.0576	0.0710	3.6300e-003	0.0541	0.0578	0.0000	188.2583	188.2583	0.0423	0.0000	189.3151
Maximum	**0.3460**	**1.7199**	**1.3843**	**2.5000e-003**	**0.1695**	**0.0874**	**0.2568**	**0.0870**	**0.0815**	**0.1685**	**0.0000**	**218.2517**	**218.2517**	**0.0532**	**0.0000**	**219.5813**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2021	8-31-2021	1.0076	1.0076
2	9-1-2021	11-30-2021	0.6556	0.6556
3	12-1-2021	2-28-2022	0.6052	0.6052
4	3-1-2022	5-31-2022	0.5949	0.5949
5	6-1-2022	8-31-2022	0.5341	0.5341
		Highest	1.0076	1.0076

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1870	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	4.2000e-003	0.0382	0.0321	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5634	41.5634	8.0000e-004	7.6000e-004	41.8104
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1912**	**0.0382**	**0.0321**	**2.3000e-004**		**2.9000e-003**	**2.9000e-003**		**2.9000e-003**	**2.9000e-003**	**0.0000**	**41.5634**	**41.5634**	**8.0000e-004**	**7.6000e-004**	**41.8104**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1870	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	4.2000e-003	0.0382	0.0321	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5634	41.5634	8.0000e-004	7.6000e-004	41.8104
Stationary	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1912**	**0.0382**	**0.0321**	**2.3000e-004**		**2.9000e-003**	**2.9000e-003**		**2.9000e-003**	**2.9000e-003**	**0.0000**	**41.5634**	**41.5634**	**8.0000e-004**	**7.6000e-004**	**41.8104**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	56.6400
Total	**56.6400**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	6/28/2021	5	20	
2	Site Preparation	Site Preparation	6/29/2021	7/12/2021	5	10	
3	Grading	Grading	7/13/2021	8/9/2021	5	20	
4	Building Construction	Building Construction	8/10/2021	6/27/2022	5	230	
5	Paving	Paving	6/28/2022	7/25/2022	5	20	
6	Architectural Coating	Architectural Coating	7/26/2022	8/22/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 63,357; Non-Residential Outdoor: 21,119; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	36.00	10.80	7.30	46.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	18.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0008	34.0008	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**		**0.0155**	**0.0155**		**0.0144**	**0.0144**	**0.0000**	**34.0008**	**34.0008**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	8.9600e-003	2.0800e-003	3.0000e-005	7.0000e-004	3.0000e-005	7.3000e-004	1.9000e-004	3.0000e-005	2.2000e-004	0.0000	2.8938	2.8938	1.1000e-004	0.0000	2.8966
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**7.4000e-004**	**9.2800e-003**	**5.5100e-003**	**4.0000e-005**	**1.8900e-003**	**4.0000e-005**	**1.9300e-003**	**5.1000e-004**	**4.0000e-005**	**5.4000e-004**	**0.0000**	**3.8786**	**3.8786**	**1.3000e-004**	**0.0000**	**3.8820**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0317	0.3144	0.2157	3.9000e-004		0.0155	0.0155		0.0144	0.0144	0.0000	34.0007	34.0007	9.5700e-003	0.0000	34.2400
Total	**0.0317**	**0.3144**	**0.2157**	**3.9000e-004**		**0.0155**	**0.0155**		**0.0144**	**0.0144**	**0.0000**	**34.0007**	**34.0007**	**9.5700e-003**	**0.0000**	**34.2400**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	8.9600e-003	2.0800e-003	3.0000e-005	7.0000e-004	3.0000e-005	7.3000e-004	1.9000e-004	3.0000e-005	2.2000e-004	0.0000	2.8938	2.8938	1.1000e-004	0.0000	2.8966
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**7.4000e-004**	**9.2800e-003**	**5.5100e-003**	**4.0000e-005**	**1.8900e-003**	**4.0000e-005**	**1.9300e-003**	**5.1000e-004**	**4.0000e-005**	**5.4000e-004**	**0.0000**	**3.8786**	**3.8786**	**1.3000e-004**	**0.0000**	**3.8820**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7179**	**16.7179**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.9000e-004	2.0600e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5909	0.5909	1.0000e-005	0.0000	0.5912
Total	**2.8000e-004**	**1.9000e-004**	**2.0600e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5909**	**0.5909**	**1.0000e-005**	**0.0000**	**0.5912**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	**0.0194**	**0.2025**	**0.1058**	**1.9000e-004**	**0.0903**	**0.0102**	**0.1006**	**0.0497**	**9.4000e-003**	**0.0591**	**0.0000**	**16.7178**	**16.7178**	**5.4100e-003**	**0.0000**	**16.8530**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.9000e-004	2.0600e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5909	0.5909	1.0000e-005	0.0000	0.5912
Total	**2.8000e-004**	**1.9000e-004**	**2.0600e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5909**	**0.5909**	**1.0000e-005**	**0.0000**	**0.5912**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2644
Total	**0.0229**	**0.2474**	**0.1586**	**3.0000e-004**	**0.0655**	**0.0116**	**0.0771**	**0.0337**	**0.0107**	**0.0443**	**0.0000**	**26.0537**	**26.0537**	**8.4300e-003**	**0.0000**	**26.2644**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**4.6000e-004**	**3.2000e-004**	**3.4300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9848**	**0.9848**	**2.0000e-005**	**0.0000**	**0.9854**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2643
Total	**0.0229**	**0.2474**	**0.1586**	**3.0000e-004**	**0.0655**	**0.0116**	**0.0771**	**0.0337**	**0.0107**	**0.0443**	**0.0000**	**26.0537**	**26.0537**	**8.4300e-003**	**0.0000**	**26.2643**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.4300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9848	0.9848	2.0000e-005	0.0000	0.9854
Total	**4.6000e-004**	**3.2000e-004**	**3.4300e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9848**	**0.9848**	**2.0000e-005**	**0.0000**	**0.9854**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0989	0.9065	0.8619	1.4000e-003		0.0499	0.0499		0.0469	0.0469	0.0000	120.4514	120.4514	0.0291	0.0000	121.1779
Total	**0.0989**	**0.9065**	**0.8619**	**1.4000e-003**		**0.0499**	**0.0499**		**0.0469**	**0.0469**	**0.0000**	**120.4514**	**120.4514**	**0.0291**	**0.0000**	**121.1779**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1900e-003	0.0374	9.9600e-003	1.0000e-004	2.3900e-003	8.0000e-005	2.4800e-003	6.9000e-004	8.0000e-005	7.7000e-004	0.0000	9.4287	9.4287	4.1000e-004	0.0000	9.4389
Worker	2.8800e-003	2.0000e-003	0.0214	7.0000e-005	7.4200e-003	5.0000e-005	7.4700e-003	1.9700e-003	4.0000e-005	2.0200e-003	0.0000	6.1452	6.1452	1.4000e-004	0.0000	6.1487
Total	**4.0700e-003**	**0.0394**	**0.0314**	**1.7000e-004**	**9.8100e-003**	**1.3000e-004**	**9.9500e-003**	**2.6600e-003**	**1.2000e-004**	**2.7900e-003**	**0.0000**	**15.5739**	**15.5739**	**5.5000e-004**	**0.0000**	**15.5877**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0989	0.9065	0.8619	1.4000e-003		0.0499	0.0499		0.0469	0.0469	0.0000	120.4512	120.4512	0.0291	0.0000	121.1777
Total	**0.0989**	**0.9065**	**0.8619**	**1.4000e-003**		**0.0499**	**0.0499**		**0.0469**	**0.0469**	**0.0000**	**120.4512**	**120.4512**	**0.0291**	**0.0000**	**121.1777**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1900e-003	0.0374	9.9600e-003	1.0000e-004	2.3900e-003	8.0000e-005	2.4800e-003	6.9000e-004	8.0000e-005	7.7000e-004	0.0000	9.4287	9.4287	4.1000e-004	0.0000	9.4389
Worker	2.8800e-003	2.0000e-003	0.0214	7.0000e-005	7.4200e-003	5.0000e-005	7.4700e-003	1.9700e-003	4.0000e-005	2.0200e-003	0.0000	6.1452	6.1452	1.4000e-004	0.0000	6.1487
Total	**4.0700e-003**	**0.0394**	**0.0314**	**1.7000e-004**	**9.8100e-003**	**1.3000e-004**	**9.9500e-003**	**2.6600e-003**	**1.2000e-004**	**2.7900e-003**	**0.0000**	**15.5739**	**15.5739**	**5.5000e-004**	**0.0000**	**15.5877**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1075	0.9838	1.0309	1.7000e-003		0.0510	0.0510		0.0480	0.0480	0.0000	145.9869	145.9869	0.0350	0.0000	146.8613
Total	**0.1075**	**0.9838**	**1.0309**	**1.7000e-003**		**0.0510**	**0.0510**		**0.0480**	**0.0480**	**0.0000**	**145.9869**	**145.9869**	**0.0350**	**0.0000**	**146.8613**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3400e-003	0.0428	0.0114	1.2000e-004	2.9000e-003	9.0000e-005	2.9900e-003	8.4000e-004	8.0000e-005	9.2000e-004	0.0000	11.3139	11.3139	4.8000e-004	0.0000	11.3258
Worker	3.2600e-003	2.1700e-003	0.0238	8.0000e-005	8.9900e-003	6.0000e-005	9.0500e-003	2.3900e-003	5.0000e-005	2.4400e-003	0.0000	7.1748	7.1748	1.5000e-004	0.0000	7.1785
Total	**4.6000e-003**	**0.0450**	**0.0352**	**2.0000e-004**	**0.0119**	**1.5000e-004**	**0.0120**	**3.2300e-003**	**1.3000e-004**	**3.3600e-003**	**0.0000**	**18.4887**	**18.4887**	**6.3000e-004**	**0.0000**	**18.5043**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1075	0.9838	1.0309	1.7000e-003		0.0510	0.0510		0.0480	0.0480	0.0000	145.9867	145.9867	0.0350	0.0000	146.8611
Total	**0.1075**	**0.9838**	**1.0309**	**1.7000e-003**		**0.0510**	**0.0510**		**0.0480**	**0.0480**	**0.0000**	**145.9867**	**145.9867**	**0.0350**	**0.0000**	**146.8611**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3400e-003	0.0428	0.0114	1.2000e-004	2.9000e-003	9.0000e-005	2.9900e-003	8.4000e-004	8.0000e-005	9.2000e-004	0.0000	11.3139	11.3139	4.8000e-004	0.0000	11.3258
Worker	3.2600e-003	2.1700e-003	0.0238	8.0000e-005	8.9900e-003	6.0000e-005	9.0500e-003	2.3900e-003	5.0000e-005	2.4400e-003	0.0000	7.1748	7.1748	1.5000e-004	0.0000	7.1785
Total	**4.6000e-003**	**0.0450**	**0.0352**	**2.0000e-004**	**0.0119**	**1.5000e-004**	**0.0120**	**3.2300e-003**	**1.3000e-004**	**3.3600e-003**	**0.0000**	**18.4887**	**18.4887**	**6.3000e-004**	**0.0000**	**18.5043**

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0276**	**20.0276**	**6.4800e-003**	**0.0000**	**20.1895**

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9490	0.9490	2.0000e-005	0.0000	0.9495
Total	**4.3000e-004**	**2.9000e-004**	**3.1500e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9490**	**0.9490**	**2.0000e-005**	**0.0000**	**0.9495**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0110**	**0.1113**	**0.1458**	**2.3000e-004**		**5.6800e-003**	**5.6800e-003**		**5.2200e-003**	**5.2200e-003**	**0.0000**	**20.0275**	**20.0275**	**6.4800e-003**	**0.0000**	**20.1895**

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9490	0.9490	2.0000e-005	0.0000	0.9495
Total	**4.3000e-004**	**2.9000e-004**	**3.1500e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9490**	**0.9490**	**2.0000e-005**	**0.0000**	**0.9495**

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**0.2223**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	8.4000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2531	0.2531	1.0000e-005	0.0000	0.2532
Total	**1.2000e-004**	**8.0000e-005**	**8.4000e-004**	**0.0000**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**8.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2531**	**0.2531**	**1.0000e-005**	**0.0000**	**0.2532**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2202					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	**0.2223**	**0.0141**	**0.0181**	**3.0000e-005**		**8.2000e-004**	**8.2000e-004**		**8.2000e-004**	**8.2000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.7000e-004**	**0.0000**	**2.5574**

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	8.4000e-004	0.0000	3.2000e-004	0.0000	3.2000e-004	8.0000e-005	0.0000	9.0000e-005	0.0000	0.2531	0.2531	1.0000e-005	0.0000	0.2532
Total	**1.2000e-004**	**8.0000e-005**	**8.4000e-004**	**0.0000**	**3.2000e-004**	**0.0000**	**3.2000e-004**	**8.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.2531**	**0.2531**	**1.0000e-005**	**0.0000**	**0.2532**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.610498	0.036775	0.183084	0.106123	0.014413	0.005007	0.012610	0.021118	0.002144	0.001548	0.005312	0.000627	0.000740

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	4.2000e-003	0.0382	0.0321	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5634	41.5634	8.0000e-004	7.6000e-004	41.8104
NaturalGas Unmitigated	4.2000e-003	0.0382	0.0321	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5634	41.5634	8.0000e-004	7.6000e-004	41.8104

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	778869	4.2000e-003	0.0382	0.0321	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5634	41.5634	8.0000e-004	7.6000e-004	41.8104
Total		**4.2000e-003**	**0.0382**	**0.0321**	**2.3000e-004**		**2.9000e-003**	**2.9000e-003**		**2.9000e-003**	**2.9000e-003**	**0.0000**	**41.5634**	**41.5634**	**8.0000e-004**	**7.6000e-004**	**41.8104**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	778869	4.2000e-003	0.0382	0.0321	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5634	41.5634	8.0000e-004	7.6000e-004	41.8104
Total		**4.2000e-003**	**0.0382**	**0.0321**	**2.3000e-004**		**2.9000e-003**	**2.9000e-003**		**2.9000e-003**	**2.9000e-003**	**0.0000**	**41.5634**	**41.5634**	**8.0000e-004**	**7.6000e-004**	**41.8104**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	227663	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	227663	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1870	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.1870	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1870**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0220					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1870**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Landscaping

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	2	0	24	0	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (0 - 11 HP)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	56.6400	0.0000	0.0000	56.6400

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	80	56.6400	0.0000	0.0000	56.6400
Total		**56.6400**	**0.0000**	**0.0000**	**56.6400**

South Valley Middle School Phase 2

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	0.00		5.80	32,087.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2023
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Phase 2 is 5.8 acres.

Trips and VMT - Added total # of hauling trips, building construction, paving, and architectural coating.

Architectural Coating - Anticipated interior/exterior space

Sequestration -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Area Coating - Anticipated acreage and square footage.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	0	40000
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblSequestration	NumberOfNewTrees	0.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	15.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1535	1.4643	1.3292	2.4100e-003	0.1661	0.0717	0.2378	0.0861	0.0669	0.1530	0.0000	209.9699	209.9699	0.0524	0.0000	211.2803
2023	0.2829	1.0535	1.2223	2.1200e-003	0.0101	0.0503	0.0604	2.7200e-003	0.0473	0.0500	0.0000	183.8101	183.8101	0.0421	0.0000	184.8616
Maximum	**0.2829**	**1.4643**	**1.3292**	**2.4100e-003**	**0.1661**	**0.0717**	**0.2378**	**0.0861**	**0.0669**	**0.1530**	**0.0000**	**209.9699**	**209.9699**	**0.0524**	**0.0000**	**211.2803**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1535	1.4643	1.3292	2.4100e-003	0.1661	0.0717	0.2378	0.0861	0.0669	0.1530	0.0000	209.9697	209.9697	0.0524	0.0000	211.2801
2023	0.2829	1.0535	1.2222	2.1200e-003	0.0101	0.0503	0.0604	2.7200e-003	0.0473	0.0500	0.0000	183.8099	183.8099	0.0421	0.0000	184.8614
Maximum	**0.2829**	**1.4643**	**1.3292**	**2.4100e-003**	**0.1661**	**0.0717**	**0.2378**	**0.0861**	**0.0669**	**0.1530**	**0.0000**	**209.9697**	**209.9697**	**0.0524**	**0.0000**	**211.2801**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

South Valley Middle School Phase 2 - Santa Clara County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.8371	0.8371
2	9-1-2022	11-30-2022	0.5813	0.5813
3	12-1-2022	2-28-2023	0.5437	0.5437
4	3-1-2023	5-31-2023	0.5387	0.5387
5	6-1-2023	8-31-2023	0.4533	0.4533
		Highest	0.8371	0.8371

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1560	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	3.1900e-003	0.0290	0.0244	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.5745	31.5745	6.1000e-004	5.8000e-004	31.7622
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1591**	**0.0290**	**0.0244**	**1.7000e-004**		**2.2000e-003**	**2.2000e-003**		**2.2000e-003**	**2.2000e-003**	**0.0000**	**31.5745**	**31.5745**	**6.1000e-004**	**5.8000e-004**	**31.7622**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1560	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	3.1900e-003	0.0290	0.0244	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.5745	31.5745	6.1000e-004	5.8000e-004	31.7622
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1591**	**0.0290**	**0.0244**	**1.7000e-004**		**2.2000e-003**	**2.2000e-003**		**2.2000e-003**	**2.2000e-003**	**0.0000**	**31.5745**	**31.5745**	**6.1000e-004**	**5.8000e-004**	**31.7622**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	56.6400
Total	**56.6400**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/28/2022	5	20	
2	Site Preparation	Site Preparation	6/29/2022	7/12/2022	5	10	
3	Grading	Grading	7/13/2022	8/9/2022	5	20	
4	Building Construction	Building Construction	8/10/2022	6/27/2023	5	230	
5	Paving	Paving	6/28/2023	7/25/2023	5	20	
6	Architectural Coating	Architectural Coating	7/26/2023	8/22/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 48,131; Non-Residential Outdoor: 16,044; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	15.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	13.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**		**0.0124**	**0.0124**		**0.0116**	**0.0116**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	1.8400e-003	4.3000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5572	0.5572	3.0000e-005	0.0000	0.5578
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9490	0.9490	2.0000e-005	0.0000	0.9495
Total	**4.9000e-004**	**2.1300e-003**	**3.5800e-003**	**2.0000e-005**	**1.3200e-003**	**2.0000e-005**	**1.3300e-003**	**3.5000e-004**	**2.0000e-005**	**3.6000e-004**	**0.0000**	**1.5062**	**1.5062**	**5.0000e-005**	**0.0000**	**1.5073**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	**0.0264**	**0.2572**	**0.2059**	**3.9000e-004**		**0.0124**	**0.0124**		**0.0116**	**0.0116**	**0.0000**	**33.9902**	**33.9902**	**9.5500e-003**	**0.0000**	**34.2289**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-005	1.8400e-003	4.3000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5572	0.5572	3.0000e-005	0.0000	0.5578
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9490	0.9490	2.0000e-005	0.0000	0.9495
Total	**4.9000e-004**	**2.1300e-003**	**3.5800e-003**	**2.0000e-005**	**1.3200e-003**	**2.0000e-005**	**1.3300e-003**	**3.5000e-004**	**2.0000e-005**	**3.6000e-004**	**0.0000**	**1.5062**	**1.5062**	**5.0000e-005**	**0.0000**	**1.5073**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	**0.0159**	**0.1654**	**0.0985**	**1.9000e-004**	**0.0903**	**8.0600e-003**	**0.0984**	**0.0497**	**7.4200e-003**	**0.0571**	**0.0000**	**16.7197**	**16.7197**	**5.4100e-003**	**0.0000**	**16.8549**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	1.8900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5694	0.5694	1.0000e-005	0.0000	0.5697
Total	**2.6000e-004**	**1.7000e-004**	**1.8900e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5694**	**0.5694**	**1.0000e-005**	**0.0000**	**0.5697**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0159	0.1654	0.0985	1.9000e-004		8.0600e-003	8.0600e-003		7.4200e-003	7.4200e-003	0.0000	16.7197	16.7197	5.4100e-003	0.0000	16.8549
Total	**0.0159**	**0.1654**	**0.0985**	**1.9000e-004**	**0.0903**	**8.0600e-003**	**0.0984**	**0.0497**	**7.4200e-003**	**0.0571**	**0.0000**	**16.7197**	**16.7197**	**5.4100e-003**	**0.0000**	**16.8549**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.7000e-004	1.8900e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5694	0.5694	1.0000e-005	0.0000	0.5697
Total	**2.6000e-004**	**1.7000e-004**	**1.8900e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5694**	**0.5694**	**1.0000e-005**	**0.0000**	**0.5697**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0548	26.0548	8.4300e-003	0.0000	26.2654
Total	**0.0195**	**0.2086**	**0.1527**	**3.0000e-004**	**0.0655**	**9.4100e-003**	**0.0749**	**0.0337**	**8.6600e-003**	**0.0423**	**0.0000**	**26.0548**	**26.0548**	**8.4300e-003**	**0.0000**	**26.2654**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9490	0.9490	2.0000e-005	0.0000	0.9495
Total	**4.3000e-004**	**2.9000e-004**	**3.1500e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9490**	**0.9490**	**2.0000e-005**	**0.0000**	**0.9495**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0195	0.2086	0.1527	3.0000e-004		9.4100e-003	9.4100e-003		8.6600e-003	8.6600e-003	0.0000	26.0547	26.0547	8.4300e-003	0.0000	26.2654
Total	**0.0195**	**0.2086**	**0.1527**	**3.0000e-004**	**0.0655**	**9.4100e-003**	**0.0749**	**0.0337**	**8.6600e-003**	**0.0423**	**0.0000**	**26.0547**	**26.0547**	**8.4300e-003**	**0.0000**	**26.2654**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.9000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9490	0.9490	2.0000e-005	0.0000	0.9495
Total	**4.3000e-004**	**2.9000e-004**	**3.1500e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9490**	**0.9490**	**2.0000e-005**	**0.0000**	**0.9495**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3385	119.3385	0.0286	0.0000	120.0533
Total	**0.0879**	**0.8042**	**0.8427**	**1.3900e-003**		**0.0417**	**0.0417**		**0.0392**	**0.0392**	**0.0000**	**119.3385**	**119.3385**	**0.0286**	**0.0000**	**120.0533**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8000e-004	0.0250	6.6300e-003	7.0000e-005	1.6900e-003	5.0000e-005	1.7500e-003	4.9000e-004	5.0000e-005	5.4000e-004	0.0000	6.6062	6.6062	2.8000e-004	0.0000	6.6131
Worker	1.9200e-003	1.2800e-003	0.0141	5.0000e-005	5.3100e-003	3.0000e-005	5.3400e-003	1.4100e-003	3.0000e-005	1.4400e-003	0.0000	4.2359	4.2359	9.0000e-005	0.0000	4.2381
Total	**2.7000e-003**	**0.0263**	**0.0207**	**1.2000e-004**	**7.0000e-003**	**8.0000e-005**	**7.0900e-003**	**1.9000e-003**	**8.0000e-005**	**1.9800e-003**	**0.0000**	**10.8421**	**10.8421**	**3.7000e-004**	**0.0000**	**10.8513**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0879	0.8042	0.8427	1.3900e-003		0.0417	0.0417		0.0392	0.0392	0.0000	119.3384	119.3384	0.0286	0.0000	120.0531
Total	**0.0879**	**0.8042**	**0.8427**	**1.3900e-003**		**0.0417**	**0.0417**		**0.0392**	**0.0392**	**0.0000**	**119.3384**	**119.3384**	**0.0286**	**0.0000**	**120.0531**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.8000e-004	0.0250	6.6300e-003	7.0000e-005	1.6900e-003	5.0000e-005	1.7500e-003	4.9000e-004	5.0000e-005	5.4000e-004	0.0000	6.6062	6.6062	2.8000e-004	0.0000	6.6131
Worker	1.9200e-003	1.2800e-003	0.0141	5.0000e-005	5.3100e-003	3.0000e-005	5.3400e-003	1.4100e-003	3.0000e-005	1.4400e-003	0.0000	4.2359	4.2359	9.0000e-005	0.0000	4.2381
Total	**2.7000e-003**	**0.0263**	**0.0207**	**1.2000e-004**	**7.0000e-003**	**8.0000e-005**	**7.0900e-003**	**1.9000e-003**	**8.0000e-005**	**1.9800e-003**	**0.0000**	**10.8421**	**10.8421**	**3.7000e-004**	**0.0000**	**10.8513**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1960	147.1960	0.0350	0.0000	148.0714
Total	**0.0999**	**0.9134**	**1.0315**	**1.7100e-003**		**0.0444**	**0.0444**		**0.0418**	**0.0418**	**0.0000**	**147.1960**	**147.1960**	**0.0350**	**0.0000**	**148.0714**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	0.0234	7.3500e-003	8.0000e-005	2.0900e-003	3.0000e-005	2.1200e-003	6.0000e-004	3.0000e-005	6.3000e-004	0.0000	7.9139	7.9139	2.9000e-004	0.0000	7.9212
Worker	2.2200e-003	1.4200e-003	0.0160	6.0000e-005	6.5500e-003	4.0000e-005	6.5900e-003	1.7400e-003	4.0000e-005	1.7800e-003	0.0000	5.0245	5.0245	1.0000e-004	0.0000	5.0270
Total	**2.9500e-003**	**0.0248**	**0.0233**	**1.4000e-004**	**8.6400e-003**	**7.0000e-005**	**8.7100e-003**	**2.3400e-003**	**7.0000e-005**	**2.4100e-003**	**0.0000**	**12.9384**	**12.9384**	**3.9000e-004**	**0.0000**	**12.9482**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0999	0.9134	1.0315	1.7100e-003		0.0444	0.0444		0.0418	0.0418	0.0000	147.1958	147.1958	0.0350	0.0000	148.0712
Total	**0.0999**	**0.9134**	**1.0315**	**1.7100e-003**		**0.0444**	**0.0444**		**0.0418**	**0.0418**	**0.0000**	**147.1958**	**147.1958**	**0.0350**	**0.0000**	**148.0712**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.3000e-004	0.0234	7.3500e-003	8.0000e-005	2.0900e-003	3.0000e-005	2.1200e-003	6.0000e-004	3.0000e-005	6.3000e-004	0.0000	7.9139	7.9139	2.9000e-004	0.0000	7.9212
Worker	2.2200e-003	1.4200e-003	0.0160	6.0000e-005	6.5500e-003	4.0000e-005	6.5900e-003	1.7400e-003	4.0000e-005	1.7800e-003	0.0000	5.0245	5.0245	1.0000e-004	0.0000	5.0270
Total	**2.9500e-003**	**0.0248**	**0.0233**	**1.4000e-004**	**8.6400e-003**	**7.0000e-005**	**8.7100e-003**	**2.3400e-003**	**7.0000e-005**	**2.4100e-003**	**0.0000**	**12.9384**	**12.9384**	**3.9000e-004**	**0.0000**	**12.9482**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0103**	**0.1019**	**0.1458**	**2.3000e-004**		**5.1000e-003**	**5.1000e-003**		**4.6900e-003**	**4.6900e-003**	**0.0000**	**20.0269**	**20.0269**	**6.4800e-003**	**0.0000**	**20.1888**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	2.9000e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9130	0.9130	2.0000e-005	0.0000	0.9134
Total	**4.0000e-004**	**2.6000e-004**	**2.9000e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9130**	**0.9130**	**2.0000e-005**	**0.0000**	**0.9134**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0103**	**0.1019**	**0.1458**	**2.3000e-004**		**5.1000e-003**	**5.1000e-003**		**4.6900e-003**	**4.6900e-003**	**0.0000**	**20.0268**	**20.0268**	**6.4800e-003**	**0.0000**	**20.1888**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	2.9000e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9130	0.9130	2.0000e-005	0.0000	0.9134
Total	**4.0000e-004**	**2.6000e-004**	**2.9000e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9130**	**0.9130**	**2.0000e-005**	**0.0000**	**0.9134**

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1673					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	**0.1692**	**0.0130**	**0.0181**	**3.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.5000e-004**	**0.0000**	**2.5571**

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1826	0.1826	0.0000	0.0000	0.1827
Total	**8.0000e-005**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1826**	**0.1826**	**0.0000**	**0.0000**	**0.1827**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1673					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9200e-003	0.0130	0.0181	3.0000e-005		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	2.5533	2.5533	1.5000e-004	0.0000	2.5571
Total	**0.1692**	**0.0130**	**0.0181**	**3.0000e-005**		**7.1000e-004**	**7.1000e-004**		**7.1000e-004**	**7.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.5000e-004**	**0.0000**	**2.5571**

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-005	5.0000e-005	5.8000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1826	0.1826	0.0000	0.0000	0.1827
Total	**8.0000e-005**	**5.0000e-005**	**5.8000e-004**	**0.0000**	**2.4000e-004**	**0.0000**	**2.4000e-004**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**0.1826**	**0.1826**	**0.0000**	**0.0000**	**0.1827**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	3.1900e-003	0.0290	0.0244	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.5745	31.5745	6.1000e-004	5.8000e-004	31.7622
NaturalGas Unmitigated	3.1900e-003	0.0290	0.0244	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.5745	31.5745	6.1000e-004	5.8000e-004	31.7622

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	591684	3.1900e-003	0.0290	0.0244	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.5745	31.5745	6.1000e-004	5.8000e-004	31.7622
Total		**3.1900e-003**	**0.0290**	**0.0244**	**1.7000e-004**		**2.2000e-003**	**2.2000e-003**		**2.2000e-003**	**2.2000e-003**	**0.0000**	**31.5745**	**31.5745**	**6.1000e-004**	**5.8000e-004**	**31.7622**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	591684	3.1900e-003	0.0290	0.0244	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.5745	31.5745	6.1000e-004	5.8000e-004	31.7622
Total		**3.1900e-003**	**0.0290**	**0.0244**	**1.7000e-004**		**2.2000e-003**	**2.2000e-003**		**2.2000e-003**	**2.2000e-003**	**0.0000**	**31.5745**	**31.5745**	**6.1000e-004**	**5.8000e-004**	**31.7622**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	172949	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	172949	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1560	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.1560	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0306					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1560**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0306					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.1560**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Landscaping

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	56.6400	0.0000	0.0000	56.6400

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	80	56.6400	0.0000	0.0000	56.6400
Total		**56.6400**	**0.0000**	**0.0000**	**56.6400**

South Valley Middle School Phase 3

Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	0.00		4.30	10,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	4			**Operational Year**	2023
Utility Company					
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Phase 3 is 4.3 acres.

Construction Phase - Anticipated construction durations.

Trips and VMT - Added total # of hauling trips, building construction, paving, and architectural coating.

Architectural Coating - Anticipated interior/exterior space

Sequestration -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblSequestration	NumberOfNewTrees	0.00	80.00
tblTripsAndVMT	HaulingTripNumber	0.00	15.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1997	1.8473	1.9841	3.4700e-003	0.0781	0.0880	0.1661	0.0401	0.0826	0.1227	0.0000	300.0719	300.0719	0.0724	0.0000	301.8821
2024	0.0808	0.2557	0.3332	5.6000e-004	2.0600e-003	0.0118	0.0139	5.5000e-004	0.0111	0.0116	0.0000	48.0379	48.0379	0.0117	0.0000	48.3295
Maximum	**0.1997**	**1.8473**	**1.9841**	**3.4700e-003**	**0.0781**	**0.0880**	**0.1661**	**0.0401**	**0.0826**	**0.1227**	**0.0000**	**300.0719**	**300.0719**	**0.0724**	**0.0000**	**301.8821**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1997	1.8473	1.9841	3.4700e-003	0.0781	0.0880	0.1661	0.0401	0.0826	0.1227	0.0000	300.0716	300.0716	0.0724	0.0000	301.8818
2024	0.0808	0.2557	0.3332	5.6000e-004	2.0600e-003	0.0118	0.0139	5.5000e-004	0.0111	0.0116	0.0000	48.0378	48.0378	0.0117	0.0000	48.3294
Maximum	**0.1997**	**1.8473**	**1.9841**	**3.4700e-003**	**0.0781**	**0.0880**	**0.1661**	**0.0401**	**0.0826**	**0.1227**	**0.0000**	**300.0716**	**300.0716**	**0.0724**	**0.0000**	**301.8818**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	2-1-2023	4-30-2023	0.6390	0.6390
2	5-1-2023	7-31-2023	0.5298	0.5298
3	8-1-2023	10-31-2023	0.5299	0.5299
4	11-1-2023	1-31-2024	0.5184	0.5184
5	2-1-2024	4-30-2024	0.1635	0.1635
		Highest	0.6390	0.6390

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0443	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	9.9000e-004	9.0400e-003	7.5900e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	9.8403	9.8403	1.9000e-004	1.8000e-004	9.8988
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0453**	**9.0400e-003**	**7.5900e-003**	**5.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**9.8403**	**9.8403**	**1.9000e-004**	**1.8000e-004**	**9.8988**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0443	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	9.9000e-004	9.0400e-003	7.5900e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	9.8403	9.8403	1.9000e-004	1.8000e-004	9.8988
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0453**	**9.0400e-003**	**7.5900e-003**	**5.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**9.8403**	**9.8403**	**1.9000e-004**	**1.8000e-004**	**9.8988**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	56.6400
Total	**56.6400**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	2/1/2023	2/28/2023	5	20	
2	Site Preparation	Site Preparation	3/1/2023	3/7/2023	5	5	
3	Grading	Grading	3/8/2023	3/17/2023	5	8	
4	Building Construction	Building Construction	3/18/2023	2/2/2024	5	230	
5	Paving	Paving	2/3/2024	2/28/2024	5	18	
6	Architectural Coating	Architectural Coating	2/29/2024	3/25/2024	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 15,000; Non-Residential Outdoor: 5,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

South Valley Middle School Phase 3 - Santa Clara County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	15.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	4.00	2.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9921	33.9921	9.5200e-003	0.0000	34.2301
Total	**0.0227**	**0.2148**	**0.1964**	**3.9000e-004**		**9.9800e-003**	**9.9800e-003**		**9.2800e-003**	**9.2800e-003**	**0.0000**	**33.9921**	**33.9921**	**9.5200e-003**	**0.0000**	**34.2301**

3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.2100e-003	3.9000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.5357	0.5357	2.0000e-005	0.0000	0.5363
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	2.9000e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9130	0.9130	2.0000e-005	0.0000	0.9134
Total	**4.4000e-004**	**1.4700e-003**	**3.2900e-003**	**2.0000e-005**	**1.3200e-003**	**1.0000e-005**	**1.3300e-003**	**3.5000e-004**	**1.0000e-005**	**3.6000e-004**	**0.0000**	**1.4487**	**1.4487**	**4.0000e-005**	**0.0000**	**1.4497**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0227	0.2148	0.1964	3.9000e-004		9.9800e-003	9.9800e-003		9.2800e-003	9.2800e-003	0.0000	33.9920	33.9920	9.5200e-003	0.0000	34.2300
Total	**0.0227**	**0.2148**	**0.1964**	**3.9000e-004**		**9.9800e-003**	**9.9800e-003**		**9.2800e-003**	**9.2800e-003**	**0.0000**	**33.9920**	**33.9920**	**9.5200e-003**	**0.0000**	**34.2300**

3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.2100e-003	3.9000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.5357	0.5357	2.0000e-005	0.0000	0.5363
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.6000e-004	2.9000e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9130	0.9130	2.0000e-005	0.0000	0.9134
Total	**4.4000e-004**	**1.4700e-003**	**3.2900e-003**	**2.0000e-005**	**1.3200e-003**	**1.0000e-005**	**1.3300e-003**	**3.5000e-004**	**1.0000e-005**	**3.6000e-004**	**0.0000**	**1.4487**	**1.4487**	**4.0000e-005**	**0.0000**	**1.4497**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	**6.6500e-003**	**0.0688**	**0.0456**	**1.0000e-004**	**0.0452**	**3.1700e-003**	**0.0483**	**0.0248**	**2.9100e-003**	**0.0277**	**0.0000**	**8.3627**	**8.3627**	**2.7000e-003**	**0.0000**	**8.4303**

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	8.7000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2739	0.2739	1.0000e-005	0.0000	0.2740
Total	**1.2000e-004**	**8.0000e-005**	**8.7000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2739**	**0.2739**	**1.0000e-005**	**0.0000**	**0.2740**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6500e-003	0.0688	0.0456	1.0000e-004		3.1700e-003	3.1700e-003		2.9100e-003	2.9100e-003	0.0000	8.3627	8.3627	2.7000e-003	0.0000	8.4303
Total	**6.6500e-003**	**0.0688**	**0.0456**	**1.0000e-004**	**0.0452**	**3.1700e-003**	**0.0483**	**0.0248**	**2.9100e-003**	**0.0277**	**0.0000**	**8.3627**	**8.3627**	**2.7000e-003**	**0.0000**	**8.4303**

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	8.7000e-004	0.0000	3.6000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2739	0.2739	1.0000e-005	0.0000	0.2740
Total	**1.2000e-004**	**8.0000e-005**	**8.7000e-004**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**9.0000e-005**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2739**	**0.2739**	**1.0000e-005**	**0.0000**	**0.2740**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4243	10.4243	3.3700e-003	0.0000	10.5085
Total	**6.8400e-003**	**0.0717**	**0.0590**	**1.2000e-004**	**0.0262**	**3.1000e-003**	**0.0293**	**0.0135**	**2.8500e-003**	**0.0163**	**0.0000**	**10.4243**	**10.4243**	**3.3700e-003**	**0.0000**	**10.5085**

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.0000e-004	1.1600e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3652	0.3652	1.0000e-005	0.0000	0.3654
Total	**1.6000e-004**	**1.0000e-004**	**1.1600e-003**	**0.0000**	**4.8000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3652**	**0.3652**	**1.0000e-005**	**0.0000**	**0.3654**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.8400e-003	0.0717	0.0590	1.2000e-004		3.1000e-003	3.1000e-003		2.8500e-003	2.8500e-003	0.0000	10.4242	10.4242	3.3700e-003	0.0000	10.5085
Total	**6.8400e-003**	**0.0717**	**0.0590**	**1.2000e-004**	**0.0262**	**3.1000e-003**	**0.0293**	**0.0135**	**2.8500e-003**	**0.0163**	**0.0000**	**10.4242**	**10.4242**	**3.3700e-003**	**0.0000**	**10.5085**

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.0000e-004	1.1600e-003	0.0000	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3652	0.3652	1.0000e-005	0.0000	0.3654
Total	**1.6000e-004**	**1.0000e-004**	**1.1600e-003**	**0.0000**	**4.8000e-004**	**0.0000**	**4.8000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.3652**	**0.3652**	**1.0000e-005**	**0.0000**	**0.3654**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1612	1.4745	1.6650	2.7600e-003		0.0717	0.0717		0.0675	0.0675	0.0000	237.5999	237.5999	0.0565	0.0000	239.0129
Total	**0.1612**	**1.4745**	**1.6650**	**2.7600e-003**		**0.0717**	**0.0717**		**0.0675**	**0.0675**	**0.0000**	**237.5999**	**237.5999**	**0.0565**	**0.0000**	**239.0129**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7000e-004	0.0151	4.7400e-003	5.0000e-005	1.3500e-003	2.0000e-005	1.3700e-003	3.9000e-004	2.0000e-005	4.1000e-004	0.0000	5.1098	5.1098	1.9000e-004	0.0000	5.1145
Worker	1.1000e-003	7.1000e-004	7.9300e-003	3.0000e-005	3.2500e-003	2.0000e-005	3.2700e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.4955	2.4955	5.0000e-005	0.0000	2.4967
Total	**1.5700e-003**	**0.0158**	**0.0127**	**8.0000e-005**	**4.6000e-003**	**4.0000e-005**	**4.6400e-003**	**1.2500e-003**	**4.0000e-005**	**1.2900e-003**	**0.0000**	**7.6053**	**7.6053**	**2.4000e-004**	**0.0000**	**7.6112**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1612	1.4745	1.6650	2.7600e-003		0.0717	0.0717		0.0675	0.0675	0.0000	237.5996	237.5996	0.0565	0.0000	239.0126
Total	**0.1612**	**1.4745**	**1.6650**	**2.7600e-003**		**0.0717**	**0.0717**		**0.0675**	**0.0675**	**0.0000**	**237.5996**	**237.5996**	**0.0565**	**0.0000**	**239.0126**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7000e-004	0.0151	4.7400e-003	5.0000e-005	1.3500e-003	2.0000e-005	1.3700e-003	3.9000e-004	2.0000e-005	4.1000e-004	0.0000	5.1098	5.1098	1.9000e-004	0.0000	5.1145
Worker	1.1000e-003	7.1000e-004	7.9300e-003	3.0000e-005	3.2500e-003	2.0000e-005	3.2700e-003	8.6000e-004	2.0000e-005	8.8000e-004	0.0000	2.4955	2.4955	5.0000e-005	0.0000	2.4967
Total	**1.5700e-003**	**0.0158**	**0.0127**	**8.0000e-005**	**4.6000e-003**	**4.0000e-005**	**4.6400e-003**	**1.2500e-003**	**4.0000e-005**	**1.2900e-003**	**0.0000**	**7.6053**	**7.6053**	**2.4000e-004**	**0.0000**	**7.6112**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0184	0.1681	0.2021	3.4000e-004		7.6700e-003	7.6700e-003		7.2100e-003	7.2100e-003	0.0000	28.9811	28.9811	6.8500e-003	0.0000	29.1525
Total	**0.0184**	**0.1681**	**0.2021**	**3.4000e-004**		**7.6700e-003**	**7.6700e-003**		**7.2100e-003**	**7.2100e-003**	**0.0000**	**28.9811**	**28.9811**	**6.8500e-003**	**0.0000**	**29.1525**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.8200e-003	5.6000e-004	1.0000e-005	1.6000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6190	0.6190	2.0000e-005	0.0000	0.6195
Worker	1.3000e-004	8.0000e-005	9.0000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2924	0.2924	1.0000e-005	0.0000	0.2925
Total	**1.9000e-004**	**1.9000e-003**	**1.4600e-003**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**5.7000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.9114**	**0.9114**	**3.0000e-005**	**0.0000**	**0.9121**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0184	0.1681	0.2021	3.4000e-004		7.6700e-003	7.6700e-003		7.2100e-003	7.2100e-003	0.0000	28.9811	28.9811	6.8500e-003	0.0000	29.1524
Total	**0.0184**	**0.1681**	**0.2021**	**3.4000e-004**		**7.6700e-003**	**7.6700e-003**		**7.2100e-003**	**7.2100e-003**	**0.0000**	**28.9811**	**28.9811**	**6.8500e-003**	**0.0000**	**29.1524**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0000e-005	1.8200e-003	5.6000e-004	1.0000e-005	1.6000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.6190	0.6190	2.0000e-005	0.0000	0.6195
Worker	1.3000e-004	8.0000e-005	9.0000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.2924	0.2924	1.0000e-005	0.0000	0.2925
Total	**1.9000e-004**	**1.9000e-003**	**1.4600e-003**	**1.0000e-005**	**5.6000e-004**	**0.0000**	**5.7000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.9114**	**0.9114**	**3.0000e-005**	**0.0000**	**0.9121**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.9300e-003**	**0.0745**	**0.1100**	**1.7000e-004**		**3.5900e-003**	**3.5900e-003**		**3.3200e-003**	**3.3200e-003**	**0.0000**	**14.7423**	**14.7423**	**4.6300e-003**	**0.0000**	**14.8581**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	2.8000e-004	3.2300e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0526	1.0526	2.0000e-005	0.0000	1.0530
Total	**4.6000e-004**	**2.8000e-004**	**3.2300e-003**	**1.0000e-005**	**1.4300e-003**	**1.0000e-005**	**1.4400e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.0526**	**1.0526**	**2.0000e-005**	**0.0000**	**1.0530**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.9300e-003	0.0745	0.1100	1.7000e-004		3.5900e-003	3.5900e-003		3.3200e-003	3.3200e-003	0.0000	14.7423	14.7423	4.6300e-003	0.0000	14.8581
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.9300e-003**	**0.0745**	**0.1100**	**1.7000e-004**		**3.5900e-003**	**3.5900e-003**		**3.3200e-003**	**3.3200e-003**	**0.0000**	**14.7423**	**14.7423**	**4.6300e-003**	**0.0000**	**14.8581**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	2.8000e-004	3.2300e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.0526	1.0526	2.0000e-005	0.0000	1.0530
Total	**4.6000e-004**	**2.8000e-004**	**3.2300e-003**	**1.0000e-005**	**1.4300e-003**	**1.0000e-005**	**1.4400e-003**	**3.8000e-004**	**1.0000e-005**	**3.9000e-004**	**0.0000**	**1.0526**	**1.0526**	**2.0000e-005**	**0.0000**	**1.0530**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0521					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	**0.0538**	**0.0110**	**0.0163**	**3.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3012**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0526	0.0526	0.0000	0.0000	0.0527
Total	**2.0000e-005**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0526**	**0.0526**	**0.0000**	**0.0000**	**0.0527**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0521					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0110	0.0163	3.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3012
Total	**0.0538**	**0.0110**	**0.0163**	**3.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3012**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.6000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0526	0.0526	0.0000	0.0000	0.0527
Total	**2.0000e-005**	**1.0000e-005**	**1.6000e-004**	**0.0000**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0526**	**0.0526**	**0.0000**	**0.0000**	**0.0527**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Total					

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Elementary School	0.612822	0.036208	0.182365	0.105071	0.013933	0.005011	0.012748	0.021514	0.002168	0.001529	0.005280	0.000629	0.000720

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	9.9000e-004	9.0400e-003	7.5900e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	9.8403	9.8403	1.9000e-004	1.8000e-004	9.8988
NaturalGas Unmitigated	9.9000e-004	9.0400e-003	7.5900e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	9.8403	9.8403	1.9000e-004	1.8000e-004	9.8988

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	184400	9.9000e-004	9.0400e-003	7.5900e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	9.8403	9.8403	1.9000e-004	1.8000e-004	9.8988
Total		**9.9000e-004**	**9.0400e-003**	**7.5900e-003**	**5.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**9.8403**	**9.8403**	**1.9000e-004**	**1.8000e-004**	**9.8988**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Elementary School	184400	9.9000e-004	9.0400e-003	7.5900e-003	5.0000e-005		6.9000e-004	6.9000e-004		6.9000e-004	6.9000e-004	0.0000	9.8403	9.8403	1.9000e-004	1.8000e-004	9.8988
Total		**9.9000e-004**	**9.0400e-003**	**7.5900e-003**	**5.0000e-005**		**6.9000e-004**	**6.9000e-004**		**6.9000e-004**	**6.9000e-004**	**0.0000**	**9.8403**	**9.8403**	**1.9000e-004**	**1.8000e-004**	**9.8988**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	53900	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	53900	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0443	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0443	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0391					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0443**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0391					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0443**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Landscaping

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	56.6400	0.0000	0.0000	56.6400

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	80	56.6400	0.0000	0.0000	56.6400
Total		**56.6400**	**0.0000**	**0.0000**	**56.6400**

APPENDIX B

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

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padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

PHASE I ENVIRONMENTAL SITE ASSESSMENT AND TITLE V HAZARDS REVIEW SOUTH VALLEY MIDDLE SCHOOL MODERNIZATION PROJECT 385 I.O.O.F. AVENUE GILROY, SANTA CLARA COUNTY, CALIFORNIA

Prepared for:

GILROY UNIFIED SCHOOL DISTRICT

MAY 2018

padre
associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

May 11, 2018
Project No. 1801-0731

James Bombaci, Director of Facilities Planning & Management
Gilroy Unified School District
210 Swanston Lane
Gilroy, California 95020

Subject: Phase I ESA for the South Valley Middle School
385 I.O.O.F. Avenue, Gilroy, Santa Clara County, California

Dear Mr. Bombaci:

Padre Associates, Inc. (Padre), at the request of Gilroy Unified School District, has prepared this Phase I environmental site assessment (ESA) report with Title V environmental hazards review for the South Valley Middle School modernization project located at 385 I.O.O.F. Avenue in Gilroy, Santa Clara County, California (Project Site).

This Phase I ESA and Title V hazards review report was performed in general accordance with the requirements of the California Department of Education (CDE), and the Department of Toxic Substances Control (DTSC) for evaluating new and existing school sites; and the American Society for Testing and Materials (ASTM) Standard Practice Designation E 1527-13.

Padre appreciates the opportunity to provide environmental consulting services to Gilroy Unified School District. If you have any questions or require additional information, please contact the undersigned at (916) 333-5920, Ext. 240.

Sincerely,
PADRE ASSOCIATES, INC.

Alan Churchill, P.G.
Project Geologist

Alan J. Klein, R.E.P.A., C.P.E.S.C., QSD/QSP
Senior Environmental Scientist

Cc: C. John Dominguez, President, School Site Solutions, Inc.

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EXECUTIVE SUMMARY

Padre Associates, Inc. (Padre), on behalf of the Gilroy Unified School District (District), completed a Phase I Environmental Site Assessment (ESA) and Title V Environmental Hazards Review for the South Valley Middle School modernization project located at 385 I.O.O.F. Avenue in Gilroy, Santa Clara County, California (Project Site).

The objective of the ESA was to determine whether current or previous land use at or adjacent to the Project Site may have involved, or resulted in the use, storage, disposal, treatment, and/or release of hazardous substances to the environment. The ESA was completed consistent with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments (E-1527-13).

To achieve the objective of the ESA, the following tasks were completed:

- A review of readily available geologic and hydrogeologic literature;
- Historical research including a review of available historical aerial photographs; Sanborn Fire Insurance Maps, and historical topographic maps relating to the Project Site;
- A site reconnaissance of the Project Site and properties located within a ½ mile of the Project Site;
- Interviews with knowledgeable persons;
- Public agency records review;
- An environmental database search;
- Performing all appropriate inquiries (AAIs);
- Identifying recognized environmental conditions (RECs);
- Identifying historical recognized environmental conditions (HRECs);
- Identifying controlled recognized environmental conditions (CRECs), including activity and use limitations (AULs);
- Identifying vapor migration environmental conditions (VEC); and
- The preparation of this report presenting the results of the ESA.

The environmental hazards review consisted of completing a review of hazards as described in California Code of Regulations, Title 5, Sections 14010 et seq. The environmental hazards review identified the presence and/or absence of the following:

- Facilities that might reasonably be anticipated to emit hazardous air emissions or hazardous materials handlers within a ¼-mile of the Project Site;

- High volume (≥12-inch diameter) water pipelines located within 1,500 feet of the Project Site;
- High pressure (>80 psig) natural gas pipelines and/or liquid petroleum pipelines located within 1,500 feet of the Project Site;
- High voltage power transmission lines located within 500 feet of the Project Site and transformers of cell towers on or near the Project site;
- Airports located within 2-nautical miles of the Project Site;
- Railroad tracks located within 1,500 feet of the Project Site;
- Earthquake faults or traces on or near the site; and identify if the Project Site is located in an Alquist-Priolo Earthquake Fault Zone;
- Flood hazard and dam inundation;
- Aboveground water/fuel storage tanks on or near the Project Site; and
- Traffic corridor (freeway or other busy traffic corridor) located within 500 feet of the Project Site.

Based on the results of the scope of services performed for this Phase I ESA, Padre makes the following observations, conclusions, and recommendations regarding the Project Site:

According to historic aerial photographs, topographic maps and Sanborn maps, the southwest portion of the Project Site was developed as part of the Gilroy High & Junior High Schools in the 1920s. The central, northeast and southeast portions of the Project Site were planted in orchards since at least 1939 until the early 1950s. By 1956 additional classroom buildings replaced most of the orchards, except for a small area located along the eastern property boundary. This final section of orchards was removed between 1956 and 1963. The existing main classroom buildings (not including portables) at the Project Site were all constructed by 1968.

The Project Site consists of approximately 20.5 acres of a larger parcel of land identified by the Santa Clara County Assessor's Office to be included as a portion of Assessor Parcel Number (APN) 841-02-049. No environmental liens or activities use limitations (AULs) were identified for the Project Site.

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, *Community Panel Number: 006085C0639H, Effective Date May 18, 2009*, the Project Site is mapped as being located in Zone X - areas determined to be outside the 0.2% (500-yr) annual chance flood plain.

According to water utility maps provided by the City of Gilroy Public Works Department, there are four underground water pipelines (≥12-inch diameter) located within 1,500 feet of the Project Site.

According to Pacific Gas and Electric (PG&E), there are two high-pressure natural gas pipelines located within 1,500 feet of the Project Site, and according to the U.S. DOT Pipeline and Hazardous Materials Safety Administration (PHMSA), there are no hazardous liquid pipelines located within 1,500 feet of the Project Site.

According to PG&E, the Project Site is not located within 100 feet from the edge of an easement for a 50-133 kilovolt (kV) line; 150 feet from the edge of an easement for a 220-230kV line; or 350 feet from the edge of an easement for a 500-550kV line. Therefore, there are no CDE setback requirements for the Project Site.

A railroad easement was identified approximately 500 feet west of the Project Site. This is an active railroad easement, owned and operated by Union Pacific.

According to the Bay Area Air Quality Management District (BAAQMD) there are three permitted stationary sources within a ¼-mile radius of the Project Site that require air permits. No compliance and/or emissions violations have been identified or reported. Based on the status and types of air permits, these facilities do not present a REC to the Project Site.

According to the *Geologic Map of San Francisco – San Jose Quadrangle Map No. 5A (1991)*, California Geological Survey, the nearest exposure of potentially asbestos-bearing ultramafic rocks is located approximately 3 miles northwest of the Project Site. Therefore, the potential for naturally occurring asbestos (NOA) to be present at the Project Site from weathering and deposition of ultramafic rock outcrops is considered a REC

According to EFZ maps issued by the California Geological Survey (CGS), the Project Site is not located within the boundaries of an Alquist-Priolo Earthquake Fault Zone, and no active faults are known to cross the Project Site (Jennings 2010).

Leroy Anderson dam, located approximately 10.8 miles northwest of the Project Site, is the nearest dam that could potentially impact the Project Site in the event of catastrophic failure. According to dam inundation maps provided by SCVWD dated 2016, catastrophic failure of the Leroy Anderson Dam could result in flood waters with a maximum depth of 10 feet reaching the Project Site in approximately 3 hours and 40 mins.

On April 5, 2018 Padre performed a site reconnaissance at the Project Site. No petroleum and/or chemical stained soils were observed at the Project Site. Additionally, no aboveground or underground petroleum storage tanks were observed at the Project Site.

A review of the EDR Radius Map Report did not identify facilities in the database records search within a one-mile radius of the Project Site that present a REC to the Project Site.

Based on the finding of the Phase I ESA, Padre concludes that the California Department of Education (CDE) will require the completion of risk management plans and/or mitigation measures for the following Title V environmental hazards identified for the Project Site:

- Four high volume (≥12-inch diameter) water pipelines located within 1,500 feet of the Project Site;
- Two high-pressure (>80 psig) natural gas pipelines located within 1,500 feet of the Project Site;
- A railroad easement located within 1,500 feet of the Project Site; and
- Dam inundation in the event of catastrophic failure, typically resulting from significant seismic events.

Based on the finding of the Phase I ESA, Padre concludes that the California Department of Toxic Substances Control (DTSC) will require the completion of a Preliminary Environmental Assessment (PEA) at the Project Site based on the following RECs:

- Potential presence of pesticides and arsenic from historic agricultural use;
- Potential presence of residual pesticides in soil from direct application of termiticides and/or ant control around the around the perimeters of building structures;
- Potential presence of residual lead in soil from weathering of lead-based paint from historic buildings;
- Potential presence of PCBs in soil from weathering of caulking used in window panes containing PCBs, and PCBs in soil beneath pole- and pad-mounted electrical transformers; and
- Potential presence of NOA in soil from the weathering and deposition of ultramafic rock outcrops located within 10 miles of the Project Site.

1.0 INTRODUCTION

Padre Associates, Inc. (Padre), on behalf of the Gilroy Unified School District (District), completed a Phase I Environmental Site Assessment (ESA) and Title V Environmental Hazards Review for the South Valley Middle School modernization project located at 385 I.O.O.F. Avenue in Gilroy, Santa Clara County, California (Project Site). The Project Site is identified on **Plate 1 - Site Location** and **Plate 2 – Site Map.**

The objective of the ESA was to determine whether current or previous land use at or adjacent to the Project Site may have involved, or resulted in the use, storage, disposal, treatment, and/or release of hazardous substances to the environment. The ESA was completed consistent with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments (E-1527-13).

To achieve the objective of the ESA, the following tasks were completed:

- A review of readily available geologic and hydrogeologic literature;
- Historical research including a review of historical aerial photographs; Sanborn Fire Insurance Maps, and historical topographic maps relating to the Project Site;
- A site reconnaissance of the Project Site and properties within a ½ mile;
- Interviews with knowledgeable persons;
- Public agency records review;
- An environmental database search;
- Performing all appropriate inquiries (AAIs);
- Identifying recognized environmental conditions (RECs);
- Identifying historical recognized environmental conditions (HRECs);
- Identifying control recognized environmental conditions (CRECs), including activity and use limitations (AULs);
- Identifying vapor migration environmental conditions (VEC); and
- The preparation of this report presenting the results of the ESA.

Definitions:

Recognized Environment Conditions (RECs) - the presence or likely presence of any hazardous substances or petroleum products in, on, or at the property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of future release to the environment. De minimis conditions are not recognized environmental conditions.

Historic Recognized Environment Conditions (HRECs) - a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has

been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to an require controls (ie., property use restrictions, activity and use limitations, institutional controls and engineering controls).

Controlled Recognized Environment Conditions (CRECs) - a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidence by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (ie., property use restrictions, activity and use limitations, institutional controls and engineering controls).

Activity Use Limitations (AULs) – legal or physical restrictions or limitations on the use of, or access to, a site or facility: (1) to reduce or eliminate potential exposure to hazardous substances or petroleum products in the soil, soil vapor, groundwater, and/or surface water on the property, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment.

Migrate/Migration – refers to the movement of hazardous substances or petroleum products in any form, including solid and liquid at the surface and subsurface, and vapor in the subsurface.

The environmental hazards review consisted of completing a review of hazards as described in California Code of Regulations, Title V, Sections 14010 et seq. The environmental hazards review identified the presence and/or absence of the following:

- Facilities that might reasonably be anticipated to emit hazardous air emissions or hazardous materials handlers within a ¼-mile of the Project Site;
- High volume (≥12-inch diameter) water pipelines located within 1,500 feet of the Project Site;
- High pressure natural gas and/or liquid petroleum pipelines located within 1,500 feet of the Project Site;
- High voltage power transmission lines located within 500 feet of the Project Site and transformers of cell towers on or near the Project site;
- Airports located within 2-nautical miles of the Project Site;
- Railroad tracks located within 1,500 feet of the Project Site;
- Earthquake faults or traces on or near the site; and identify if the Project Site is located in an Alquist-Priolo Earthquake Fault Zone;
- Flood hazard and dam inundation;
- Water/fuel storage tanks on or near the Project Site; and

- Traffic corridor (freeway or other busy traffic corridor) located within 500 feet of the Project Site.

Seven appendices are included with this report. Appendix A presents the assessor's parcel map and Flood Insurance Rate Map; Appendix B presents historical aerial photographs, and topographic maps; Appendix C presents photographs of the Project Site at the time of the assessment; Appendix D presents the property owner questionnaire; Appendix E presents pipeline information; Appendix F presents the environmental database report obtained from EDR for the Project Site; and Appendix G presents the qualifications of the environmental assessor(s) responsible for the findings of this report.

2.0 ENVIRONMENTAL SETTING

The following discussion summarizes the geologic, hydrogeologic, and other relevant data pertaining to the physical setting of the Project Site.

2.1 SITE LOCATION AND DESCRIPTION

The Project Site is located in Section 31, Township 10 South, Range 04 East, of the USGS Gilroy, California Quadrangle 7½-Minute Series Topographic Map. Approximate latitude and longitude near the center of the Project Site are identified to be:

- Latitude (North) 37° 00' 56.50" N (37.0157)
- Longitude (West) -121° 34' 3.29" W (-121.5676)

The Project Site consists of the approximately 20.5 acres of the existing South Valley Middle School located at 385 I.O.O.F. Avenue in Gilroy, Santa Clara County, California. The Project Site is identified by the Santa Clara County Assessor's Office to be included within Assessor Parcel Number (APN) 841-02-049 (24.12± acres). A copy of the assessor parcel map is presented in **Appendix A**.

2.2 TOPOGRAPHY AND DRAINAGE

Based on a review of the USGS 7.5-minute series topographic map, Gilroy, California (1955, revised 1993), the Project Site lies at an approximate elevation of 200 feet above mean sea level (msl). The general topographic gradient in the vicinity of the Project Site is southeast towards Llagas Creek located approximately 600 feet east of the Project Site. Surface water run-off at the Project Site Facility is diverted via proper surface grading and to storm drain inlets situated throughout the Project Site and adjacent streets.

2.3 GEOLOGY AND HYDROGEOLOGY

The Project Site is located within the Coast Ranges geomorphic province of California. The Coast Ranges stretch approximately 600 miles from the Oregon border to the Santa Ynez River and fall into two sub-provinces: the ranges north of San Francisco Bay and those from the San Francisco Bay south to Santa Barbara County. The northern ranges lie east of the San Andreas Fault Zone, whereas most of the southern ranges are to the west. The province

contains many elongate ranges and narrow valleys that are approximately parallel to the coast, although the coast usually shows a somewhat more northerly trend than do the ridges and valleys. Therefore, some valleys intersect the shore at acute angles and some mountains terminate abruptly at the sea (Norris and Webb, 1990).

The dominant characteristic of the Coast Ranges is its division into elongate topographic and lithographic strips underlain by discrete basement rocks that are separated by profound structural discontinuities. The pattern extends east, and probably also west onto the sea floor. On the east, concealed beneath the Central Valley, is the enigmatic boundary between the Sierra Nevada basement and the Coast Range Franciscan. Most of the boundary between the Sierran and Franciscan basement lies beneath several thousand feet of late Mesozoic and Cenozoic sedimentary rocks in the Salinas Valley. North of the city of Red Bluff, the boundary emerges as the South Fork Mountain Thrust, separating the Klamath Mountains from the Coast Ranges. Westward, the next major boundary is the San Andreas Fault Zone, which separates Franciscan basement from the granitic-metamorphic basement of the Salinian Block. South of Monterey, the Sur-Nacimiento Fault Zone separates Salinian rocks from more Franciscan basement to the southwest. Another boundary should occur farther west, offshore, where Franciscan basement is replaced by normal oceanic crust.

The Project Site lies within the southern Santa Clara Valley and is bounded by the Santa Cruz Mountains on the west and the Diablo Range on the east. According to the Geologic Map of the Gilroy Quadrangle, Santa Clara County, California (Dibblee, 2005), the Project Site is underlain by Holocene-age alluvium (alluvial gravel, sand and clay of valley areas).

According to the United States Department of Agriculture, Soil Conservation Service's, Soil Survey of Eastern Santa Clara Area, California dated November 1974, surficial soils at the Project Site consist of the Pleasanton series' loam (0 to 2 percent slopes) and gravelly loam (0 to 2 percent slopes).

The Pleasanton loam consists of well drained loams that are underlain by old gravelly sedimentary alluvium. They are found on alluvial fans and terraces. The native vegetation, where these soils are not cultivated, is annual grasses, forbs, and scattered oaks. In a representative profile, the surface layer is grayish brown, slightly acid loam about 18 inches thick. In some places the surface layer is gravelly loam. The subsoil is dark grayish-brown, brown, and yellowish-brown, neutral clay loam, gravelly heavy clay loam, and gravelly sandy clay loam. Permeability in the subsoil is moderately slow and the hazard of erosion is none to slight. The runoff is very slow and the shrink-swell potential is considered moderate.

The Project Site is located in the Llagas subbasin, which is a structural depression filled with Pliocene to Holocene age unconsolidated and semi-consolidated valley fill materials (alluvium and alluvial fans). The sediments are a combination of gravels, sands, silts, and clays which overlay the Santa Clara Formation. The Santa Clara Formation is of Pliocene age and generally of fluviatile origin with an estimated maximum thickness of 1,800 feet. The overlying alluvium deposits include old alluvium, young alluvium, and alluvial fans ranging in age from Plio-Pleistocene age to Holocene age. Alluvium deposits can range in thickness from 3 to 125 feet and generally provide adequate yields in wells up to 100 feet deep. The operational

storage capacity of the Llagas subbasin is estimated to be 150,000 acre-feet (DWR Bulletin 118).

According to groundwater elevation data provided by the Santa Clara Valley Water Agency, a groundwater monitoring well (11S04E06H001) is located approximately 650 feet southwest of the Project Site. Shallow groundwater levels in the area of the Project Site range from approximately 20 to 40 feet below ground surface (bgs). The most recent measured taken in November 2017 was 27.2 feet. It should be noted that regional groundwater pumping associated with agricultural production activities may influence groundwater depths and flow direction at various times of the year. Depending on the proximity of nearby wells, actual groundwater depths at the site may vary significantly from those noted.

2.4 FLOODPLAIN

According to the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map, *Community Panel Number: 006085C0639H, Effective Date May 18, 2009*, the Project Site is mapped as being located in Zone X - areas determined to be outside the 0.2% (500-yr) annual chance flood plain. A copy of the flood insurance rate map is presented in **Appendix A**.

2.5 RADON

Radon is a colorless, odorless, tasteless, and radioactive gas that is produced as a natural decay product of uranium. Because of its radioactivity, studies have shown that at elevated concentrations there is a link between radon and lung cancer. Persons living in a building with elevated radon concentrations may have an increased risk of contracting lung cancer over a period of years. United States Environmental Protection Agency (U.S. EPA) recommends mitigating for indoor radon levels if the exceed 4 pCi/L (pico curies per liter).

Sections 307 and 309 of the Indoor Radon Abatement Act of 1988 (IRAA) directed the U.S. EPA to list and identify areas of the United States with the potential for elevated indoor radon levels. The U.S. EPA's Map of Radon Zones assigns each of the 3,141 counties in the U.S. to one of three zones based on radon potential:

- Zone 1 counties have a predicted average indoor radon screening level greater than 4 pCi/L (pico curies per liter) (red zones);
- Zone 2 counties have a predicted average indoor radon screening level between 2 and 4 pCi/L (orange zones); and
- Zone 3 counties have a predicted average indoor radon screening level less than 2 pCi/L (yellow zones).

According to the U.S. EPA map of California radon zones, San Clara County is identified as a Zone 2 (orange) county. Zone 2 counties have a predicted average indoor radon screening level between 2 and 4 pCi/L. According to the California database of indoor radon levels sorted by Zip Code (Feb. 2016), thirty site tests were conducted in Santa Clara County (Zip Code 95020) with one of those sites identified above 4 pCi/L at a concentration of 4.6

pCi/L. Therefore, the potential for radon hazard at the Project Site is considered low and is dependent on building construction specifications.

2.6 OIL AND GAS WELLS

The California Division of Oil, Gas, and Geothermal Resources (DOGGR) oversees the drilling, operation, maintenance, and plugging and abandonment of oil wells, natural gas wells, and geothermal wells. The DOGGR regulatory program emphasizes the wise development of oil, natural gas, and geothermal resources in the state of California through sound engineering practices that protect the environment, prevent pollution, and ensure public safety. Padre reviewed the available DOGGR online mapping system for the Project Site at the California Department of Conservation webpage (http://www.conservation.ca.gov/dog). According to a review of the DOGGR online database and interactive map, there are no reported oil wells, natural gas wells, and/or geothermal wells located within a one-mile radius of the Project Site.

2.7 NATURALLY OCCURRING ASBESTOS (NOA)

Asbestos is a naturally occurring silicate mineral of the amphibole group that has historically been utilized for a variety of purposes including fireproofing, due to its fibrous nature, which allowed it to be woven into cloth and formed into various types of construction material. Asbestos is a known carcinogen.

According to the California Department of Conservation, Division of Mines and Geology, Open-File Report 2000-19, dated August 2000, natural occurrences of asbestos are more likely to be encountered in, and immediately adjacent to, areas of ultramafic outcrops (igneous and metamorphic rocks with high iron and magnesium contents). For school sites located within 10 miles of potentially asbestos-bearing ultramafic outcrops, the Department of Toxic Substances Control (DTSC) typically recommends an assessment of onsite soils.

According to the *Geologic Map of San Francisco – San Jose Quadrangle Map No. 5A (1991)*, California Geological Survey, the nearest exposure of potentially asbestos-bearing ultramafic rocks is located approximately 3 miles northwest of the Project Site. Therefore, the potential for NOA to be present at the Project Site from weathering and deposition of ultrabasic rock outcrops is considered a REC.

3.0 HISTORICAL SITE CONDITIONS

Based on a review of readily available historical information, Padre has compiled the following history of the Project Site. The earliest documentation reviewed for site usage was a Sanborn map dated 1906, and topographic map dated 1917, and an aerial photograph dated 1939. Copies of historical maps and aerial photographs are presented in **Appendix B**.

3.1 HISTORICAL AERIAL PHOTOGRAPHS

Padre reviewed readily available aerial photographs of the Project Site and the surrounding area obtained from EDR for the years 1939, 1950, 1956, 1963, 1968, 1974, 1982, 1998, 2006, and 2014. The information is summarized below:

1939 The 1939 photograph shows the western third of the Project Site to be occupied with a building (high school) and running track, and the remaining portion utilized for agriculture (orchards). An unpaved road transects the Project Site (northwest-southeast) along the east side the running track. The Project Site is bordered to the north by school facilities and agriculture; to the east by agriculture; to the south by a road (future I.O.O.F. Avenue), beyond which are agricultural properties; and to the west by high school buildings, beyond which is a railroad track and buildings.

1950 The 1950 photograph shows the high school building and track on the western third of the Project Site. The remaining portion of the Project Site appears to be have been developed with a running track, however a small portion along the east Project Site boundary contains orchards. Surrounding properties appear similar to the 1939 photograph with the exception of slightly increased development further out to the west and south west.

1956 The 1956 photograph shows that the running track has been removed from the western portion of the Project Site and an additional building (gymnasium) has been constructed. Additionally, four elongated buildings (middle school) have been constructed on the eastern portion of the Project Site. Surrounding properties appear similar to the 1950 photograph with the exception of residential development south of the Project Site.

1963 The 1963 photograph shows continued development of the Project Site with additional buildings and playfields. The Project Site is bordered to the north by school facilities and orchards, beyond which are residences; to the east by agriculture; to the south by I.O.O.F. Avenue, beyond which are residences; and to the west by school facilities and a running track, beyond which is a railroad track.

1968 The 1968 photograph shows continued development of the Project Site additional buildings and a tennis court. Surrounding properties appear similar to the 1963 photograph with the exception of a mobile home park to the north and some commercial development to the northeast.

1974 The 1974 photograph shows that the original building located at the southwest area of the Project Site has been removed (area of exposed soil). The remaining areas of the Project Site are similar to the 1968 photograph. Surrounding properties appear similar to the 1968 photograph with the exception of increased residential development to the north, and the construction of Highway 101 further out to the east.

1982 The 1982 photograph shows the Project Site similar to the 1974 photograph. Surrounding areas appear similar to the 1974 photograph, with the exception of increased development to the north and west, and improvement of Highway 101.

1998 The 1998 photograph shows the Project Site similar to the 1982 photograph. Surrounding properties appear similar to the 1982 photograph with the exception of development west of Highway 101.

2006 The 2006 photograph shows the Project Site and surrounding areas similar to the 1998 photograph.

2014 The 2014 photograph shows the Project Site and surrounding areas similar to the 2006 photograph.

3.2 UNITED STATES GEOLOGICAL SURVEY TOPOGRAPHIC MAPS

Padre obtained historical topographic maps published by the USGS for the vicinity of the Project Site. Historical topographic maps dated 1917, 1939, 1955, 1968, 1973, 1993, and 2012 were reviewed. A summary of the information presented on each map is presented below:

1917 The 1917 map shows the Project Site as mostly vacant land with a road transecting northwest-southeast through the western third of the Project Site. The Project Site is bordered to the north by mostly vacant land, beyond which are a few structures; to the east by vacant land and one structure; to the south by a road (future I.O.O.F. Avenue) beyond which are structures and vacant land; and to the west by a school building, beyond which is stream and railroad track.

1939 The 1939 map shows the Project Site to be developed with a structure and running track on the western third of the Project Site, and the remaining portion to be vacant. Surrounding areas appear similar to the 1917 map with the exception of a few more structures to the north, south, and west.

1955 The 1955 map shows the Project Site to be developed with a school structure and identified as Union High School. The eastern area of the Project Site is contains orchards. The Project Site is bordered by school structures and agriculture (orchards) to the north, beyond which are residences; agriculture to the west; I.O.O.F. Avenue to the south, beyond which are residences and a large building; and school structures to the west, beyond which is Miller Slough and a railroad track.

1968 The 1968 shows the Project Site to be developed with several additional structures at the east portion on the Project Site which is the Brownell Middle School. The map identifies the property as Union High School. The Project Site is bordered by school structures, agriculture (orchards), and a trailer park to the north; agriculture to the east; I.O.O.F. Avenue to the south, beyond which are residences and a large building; and school structures to the west, beyond which is Miller Slough and a railroad track.

1973 The 1973 map shows the Project Site and surrounding areas similar to the 1968 map with the exception of the construction of Highway 101 further out to the east.

1993 The 1993 map shows the Project Site to be identified as South Valley Junior High School, and the original Union High School building has been removed. The Project Site is bordered by school structures, residences, and a mobile home park; to the east by residences, beyond which is Llagas Creek and Highway 101; I.O.O.F. Avenue to the south, beyond are residences and a large building; and school structures to the west, beyond which is Miller Slough and a railroad track

2012 The 2012 map shows streets and highways, and Miller Slough, however does not depict structures at or adjacent to the Project Site.

3.3 HISTORICAL SANBORN FIRE INSURANCE MAPS

The complete Sanborn Library collection was searched by EDR for the Project Site. According to EDR, Sanborn Fire Insurance Map coverage was identified for the Project Site and adjacent properties for the years 1906, 1926, 1943, 1949, and 1959. The following is a summary of the Sanborn Fire Insurance Maps reviewed:

1906 The 1906 map shows the Project Site as undeveloped. Martin Lane is located south and adjacent to the Project Site, beyond which is the I.O.O.F. Orphanage Home.

1926 The 1926 map shows the Project Site to be developed with gymnasium for the Gilroy High and Junior High Schools. The gymnasium is constructed with steel truss and there is a swimming pool in the building. There is a small enclosure between the high school and junior high buildings Central Heat Plant and Transformers. The high school and the junior high school are located west and adjacent to the Project Site. North Forest Lane (?) is located to the east and Martin Lane is located to the south, beyond which is the I.O.O.F. Orphanage Home and a small hospital. There are very small portions of structures north of the junior high school, but no information is discernable.

1943 The 1943 map and surrounding properties are similar to the 1926 map with the exception that the small enclosure labeled Central Heat Plant and Transformers indicates Boiler Room (Fuel: Gas) and there is a cafeteria located in the north portion of the Project Site. Surrounding properties are similar to the 1926 map with the of a music building located to the west and the hospital building to the south has expanded.

1949 The 1949 map shows that the gymnasium has been changed to a multi-use and storage building. A new gymnasium which with locker rooms is present on the Project Site. Additionally, there are two swimming pools and a filter room.

The new gymnasium indicates that is was built in 1956. The small enclosure containing the boiler room has been replaced with a classroom. The high school building to the west has been removed, and the junior high school is now referenced as Wheeler Junior High School. Surrounding properties are similar to the 1943 map with the exception that Martin Lane is now identified as I.O.O.F. Avenue.

1956 The 1956 map and surrounding areas are the same as the 1949 map.

3.4 CITY DIRECTORIES

EDR searched select national repositories of business directories. Sources researched included Cole Information Services and Polk's City Directory. Directories were reviewed at various intervals for the years spanning 1964 through 2014. Padre obtained an abstract of historical city directories provided by EDR for the physical addresses primarily along I.O.O.F. Avenue.

385 I.O.O.F. Avenue is listed in the city directories from 1964 through 2014. The Project Site is identified as Gilroy High School from 1964 through 1975; Gilroy South Valley Junior High School from 1980 through 1986; and Gilroy Unified School District from 1992 through 2014. Surrounding properties consists mostly of residences. No facilities were identified that present a REC to the Project Site.

3.5 ENVIRONMENTAL LIENS

Padre reviewed the EDR Environmental Lien and activity use limitations (AULs) search report of available current land title records for environmental cleanup liens and other AULs such as engineering controls and institutional controls. The EDR Environmental Lien search identifies the Gilroy Unified School District as the current property with no former property owner identified. No environmental liens or AULs were identified for the Project Site.

3.6 EXISTING ENVIRONMENTAL REPORTS

Padre was not provided with, nor did it identify the presence of existing environmental reports for the Project Site.

4.0 CURRENT SITE CONDITIONS

The current site conditions were assessed to determine current activities and hazardous substances handling and storage at the Project Site.

4.1 SITE RECONNAISSANCE

On April 5, 2018, Mr. Alan Klein and Mr. Alan Churchill of Padre conducted a site reconnaissance with the assistance of Mr. Jim Bombaci, Director of Facilities for Gilroy USD. The Project Site consists of approximately 20.5 acres and is occupied by the South Valley Middle School. The school consists of six elongated classroom wings with covered walkways,

multi-purpose building, administrative building, and gymnasium with locker rooms. Additionally, along the west Project Site boundary, there is small residence (security), classroom utilized by a local community college for night school classes, community clinic, and two portables structures (adult education and preschool). There is a large grass playfield occupying the north side of the campus, a smaller area containing tennis courts, and several parking areas. School was not in session due to spring break, and the weather at the time of the inspection was cool and overcast.

The majority of building structures consist of slab-on-grade foundations, stucco walls and built-up roofing system. The portable classrooms are made of wood siding and sit on wood foundations over asphalt paving. Two former swimming pools are located on the north side of the gymnasium as well as the former pump room that utilized a boiler to heat the pools.

One pole-mounted transformer is located at the north Project Site boundary; one pad-mounted transformer is located along the east Project Site boundary; and one pad-mounted transformer and electric switch box is located in the central portion of the Project Site. No spills and/or surface staining was observed at these locations.

No spills and/or staining was observed at the Project Site. Additionally, no aboveground or underground petroleum storage tanks were observed at the Project Site.

The Project Site is bordered to the north by the District's facilities' offices, residences and a mobile home park; to the east by Murray Avenue, beyond which are residences; to the south by I.O.O.F. Avenue beyond which are residences and a children's home; and to the west by Gilroy Prep School, beyond which is a railroad easement. Photographs taken during the course of the site visit are presented in **Appendix C**.

4.2 ASBESTOS-CONTAINING MATERIALS

Padre did not conduct a comprehensive Asbestos-Containing Materials (ACM) survey as part of this Phase I ESA. Properties with residential and/or commercial structures constructed before 1976 may potentially contain ACM. The mitigation and management of ACM is currently regulated by several federal, state, and local agencies.

A review of historical aerial photographs indicates that building structures have occupied the Project Site since at least 1939. Therefore, the potential for ACM at the Project Site from building materials is considered a REC.

4.3 LEAD-BASED PAINT

Properties containing structures with paint or surface coatings, with the exception of residential structures constructed on or after January 1, 1979 or schools constructed prior to January 1, 1993, may have surfaces coated with lead-based paint. Weathering, scraping, chipping, and abrasion may cause lead to be released to and accumulate in soil around these structures. Therefore, the California Department of Toxic Substances Control (DTSC) School Property Evaluation and Cleanup Division recommends the collection of soil samples to

determine if the potential presence of residual lead soil contamination poses a threat to human health and the environment.

A review of historical aerial photographs indicates that building structures have occupied the Project Site since at least 1939. Therefore, the potential for residual lead in soil from weathering of lead-based paint at the Project Site is considered a REC.

4.4 POLYCHLORINATED BIPHENYLS

Padre did not conduct a comprehensive polychlorinated biphenyls (PCBs) survey as part of this Phase I ESA. PCBs have been used as coolants and lubricants in electrical transformers, capacitors, and other electrical equipment because they do not burn easily and are good insulators. The manufacture of PCBs was stopped in the U.S. in 1977. Products made before 1977 that may contain PCBs include old fluorescent lighting fixtures and electrical devices containing PCB capacitors, and old microscope and hydraulic oils.

During site reconnaissance activities performed on April 5, 2018 pole and pad-mounted electrical transformers were observed at the Project Site. Therefore, the potential for PCBs to be present in soil at the Project Site from this source is considered a REC.

In recent years, U.S. EPA has learned that caulk containing polychlorinated biphenyls (PCBs) was used in many buildings, including school buildings, in the 1950s through the 1970s. A review of historical aerial photographs indicates that the several existing school buildings were constructed between the 1950s and the 1970s. Therefore, the potential for residual PCBs in soil from weathering of window caulking at the Project Site is considered a REC.

4.5 TERMITICIDES

Organochlorine pesticides (OCPs) were commonly used as insecticides for termite control around structures and typically applied surficially to soil surrounding foundations and injected into the soil in an effort to isolate wood structures from termite nests. Chlordane was used in the United States from 1948 until 1988, when it was banned by the United States Environmental Protection Agency (U.S. EPA). Because of evidence of human exposure and accumulation in body fat, as well as persistence in the environment and effects on wildlife, the U.S. EPA prohibited the use of chlordane in 1988.

DTSC conducted an investigation of three proposed school sites in southern California with residential structures to evaluate the presence and prevalence of chlordane and other OCPs as a result of termiticide application. Additionally, DTSC investigated OCPs from termiticide application at residential properties proposed for school sites in various counties throughout California. The results of the study indicated that it is likely that significant concentrations of OCP residues may exist around structures with wood components built prior to January 1, 1989, and should be evaluated at school sites.

A review of historical aerial photographs indicates that building structures have occupied the Project Site since at least 1939 with additional buildings constructed between the 1950s and

the 1970s. Therefore, pesticides in soil from the direct application of termiticides is considered a REC.

4.6 PROJECT SITE ENVIRONMENTAL QUESTIONNAIRE

A project site environmental questionnaire was completed by Mr. James Bombaci, Director of Facilities with the District. According to Mr. Bombaci, the property was acquired by the Gilroy High School District in 1939 and occupied by Gilroy Union High School on the western portion of the Project Site. South Valley Middle School was constructed in 1958 at which time the Gilroy Union High School building was removed. Prior to the school construction, the property was utilized for agriculture purposes.

According to Mr. Bombaci, there are no underground and/or aboveground storage tanks located onsite; there are no septic tanks and/or leach fields located onsite; and there have been no chemical spills and/or chemical incidents located onsite. Additionally, there are no records of pesticide/herbicide use or chemical spills/releases at the Project Site. A copy of the completed project site environmental questionnaire is presented in **Appendix D**.

4.7 SURROUNDING PROPERTIES

The Project Site is bordered to the north by the District's facilities' offices, residences and a mobile home park; to the east by Murray Avenue, beyond which are residences; to the south by I.O.O.F. Avenue beyond which are residences and a children's home; and to the west by Gilroy Prep School, beyond which is a railroad easement.

5.0 ENVIRONMENTAL RECORDS REVIEW AND TITLE V HAZARDS REVIEW

Padre contacted the regulatory agencies in the region to determine if soil and groundwater contamination is known or suspected at or near the Project Site. Regulatory agency databases were obtained from EDR for the Project Site and properties within one mile.

5.1 PUBLIC RECORDS REVIEW AND AGENCY CONTACTS

Padre contacted the following local agencies for information concerning environmental complaints, accidents, or spills on or in the vicinity of the Project Site and for safety concerns related to school sites in California.

5.1.1 Bay Area Air Quality Management District

Padre submitted a letter of inquiry to the Bay Area Air Quality Management District (BAAQMD) requesting information regarding facilities located within a ¼-mile radius of the proposed new school site, which might reasonably be anticipated to emit hazardous air. According to information provided by the BAAQMD, there are three permitted facilities located within a ¼-mile radius of the Project Site.

- The City of Gilroy located approximately 0.24 miles northwest of the Project Site operates an emergency diesel-fuel generator for a groundwater well;
- Germain Seed Technology located approximately 0.24 miles northwest of the Project Site operates a seed dryer and handler; and
- The City of Gilroy located approximately 0.24 miles east of the Project Site operates an emergency diesel-fuel generator for a groundwater well.

These facilities operate under permits issued by the BAAQMD and no violations have been identified. Therefore, these facilities do not present a REC to the Project Site.

5.1.2 City of Gilroy Public Works Department

Padre contacted the City of Gilroy Public Works Department (GPWD) for public information regarding the presence of high volume water pipelines (≥ 12 inches) located within 1,500 feet of the Project Site. According to information provided by the GPWD, the following underground water pipelines are located within 1,500 feet of the Project Site:

- 12-inch diameter water pipeline located east and adjacent to the Project Site beneath Murray Avenue;
- 12-inch diameter water pipeline located approximately 750 feet west of the Project Site beneath Monterey Road;
- 12-inch diameter water pipeline located approximately 960 feet east of the Project Site beneath Arroyo Circle; and
- 24-inch diameter water pipeline located approximately 850 west of the Project Site beneath 1st Street.

Pipeline information provided by GPWD is presented in **Appendix E**.

5.1.3 High Pressure Natural Gas and Fuel Transmission Pipelines

Padre contacted Pacific Gas & Electric (PG&E) to inquire about the presence of high pressure natural gas pipelines (NGP) within 1,500 feet of the Project Site. According Mr. Steven Lui, Gas Technical Specialist with PG&E, there are two natural gas pipelines located within 1,500 feet of the Project Site.

- Line 0833-01 is located immediately south of the Project Site beneath Forest Street. The NGP is a distribution feeder main and ranges in diameter from 4.5 to 6.625 inches diameter with a maximum allowable operating pressure (MAOP) of 400 pounds per square-inch gauge (psig); and
- Line 0833-04 is located approximately 1,150 west of the Project Site beneath Eigleberry Street, and a section of this NGP is located approximately 1,250 feet south beneath Lewis Street. The NGP is a distribution feeder main and ranges in diameter from 6.625 to 8.625 inches with a MAOP of 400 psig.

Pipeline information provided by PG&E is presented in **Appendix E**.

According to the U.S. DOT Pipeline and Hazardous Materials Safety Administration (PHMSA) website (www.npms.phmsa.dot.gov), there are no hazardous liquid pipelines located within 1,500 feet of the Project Site.

5.1.4 High Voltage Electric Power Lines

In consultation with the State Department of Health Services (DHS) and electric power companies, CDE has established the following limits for locating any part of a school site property line near the edge of easements for high-voltage power transmission lines:

- 100 feet from the edge of an easement for a 50-133 kilovolt (kV) line;
- 150 feet from the edge of an easement for 220-230 kV line; and
- 350 feet from the edge of an easement for a 500-550 kV line.

Padre contacted the PG&E to inquire about the presence of high voltage power transmission lines located within 350 feet of the proposed school site. According Mr. Michael Allen, Senior GIS Analyst with PG&E, there are no high voltage power transmission lines located within the CDE specified limits. Additionally, Mr. Allen indicated that the overhead power lines located within 350 feet of the Project Site are 21 kV power lines. Therefore, there are no CDE setback requirements for the Project Site.

5.1.5 Airports

Padre reviewed the California Department of Transportation (Caltrans) Division 2016 California Public Use Airports and Federal Airfields Map; the USGS topographic map, Gilroy Quadrangle, California, 1955 (revised 1993); and the Google Earth satellite image dated March 2017. Based on a review of these sources, no airports were identified within two nautical miles of the Project Site.

5.1.6 Railroads

Padre reviewed the USGS topographic maps, Gilroy Quadrangle, California, 1955 (revised 1993); and the Google Earth satellite imagery dated March 2017 and conducted a site reconnaissance on April 5, 2018 to identify railroad easements within 1,500 feet of the Project Site. Based on a review of these sources, a railroad easement was identified approximately 500 feet west of the Project Site. This is an active railroad easement, owned and operated by Union Pacific.

5.1.7 Earthquake Fault Zones

In 1972 the State of California passed the Alquist-Priolo Earthquake Fault Zoning Act (AP Act) to mitigate the hazard of surface faulting to structures utilized for human occupancy. The AP Act's primary purpose is to prevent the construction of buildings used for human occupancy on the surface trace of active faults. The AP Act defines three categories of fault activity; active (demonstrated movement within the last 11,000 years), potentially active

(movement within the past 11,000 to 2,000,000 years), and inactive (no movement within the past 2,000,000 years).

Since 1972 the California Geological Survey (CGS, formerly the California Division of Mines and Geology) has issued a series of 1"=2,000' scale maps delineating Earthquake Fault Zones (EFZs). Structures proposed within mapped EFZs require geologic investigations to demonstrate that the structures will not be constructed across active faults. If an active fault is identified within the boundaries of the Project Site, the proposed structures must be set back from the EFZ, generally a distance of 50 feet on either side of the identified fault location. The CGS mapping program is ongoing, and areas not currently identified as being within an EFZ may be included at some later time.

According to Earthquake Fault Zone (EFZ) maps issued by the California Geological Survey (CGS), the Project Site is not located within the boundaries of an Alquist-Priolo Earthquake Fault Zone, and no active faults are known to cross the Project Site (Jennings 2010).

5.1.8 Dam Inundation

Catastrophic failure of dams is rare and is most likely to occur following significant seismic events. The following dams were identified that could potentially impact the Project Site in the event of catastrophic failure:

- The Coyote Lake Dam, located approximately 7.1 miles northeast of the Project Site and approximately 2.7 miles upstream of Anderson Lake. The Coyote Lake Dam is an earth and rock dam situated on Coyote Lake. The dam is approximately 140 feet high, was constructed from 1934 to 1936, and has a capacity of 23,244 acre-feet. According to dam inundation maps provided by the Santa Clara Valley Water District (SCVWD) dated 2016, catastrophic failure of Coyote Dam would be contained within Anderson Lake and not impact the Project Site.
- The Uvas Dam, located approximately 7.5 miles northwest of the Project Site, is an earthen embankment dam situated on the Uvas Reservoir. The dam is approximately 118 feet high, was constructed in 1957, and has a capacity of 9,835 acre-feet. According to dam inundation maps provided by SCVWD and dated 1976, the Project Site is located outside the limits of inundation.
- Elmer J. Chesbro dam, located approximately 9.8 miles northwest of the Project Site, is an earth and rock dam situated on the Chesbro Reservoir. The dam is approximately 95 feet high, was constructed in 1955, and has a capacity of 7,945 acre-feet. According to dam inundation maps provided by SCVWD and dated 2001 (revised), the Project Site is located outside the limits of inundation.
- Leroy Anderson dam, located approximately 10.8 miles northwest of the Project Site, is an earthen embankment dam situated on Anderson Lake. The dam is approximately 235 feet high, was constructed in 1950, and has a capacity of 89,073 acre-feet. According to the Santa Clara Valley Water District (SCVWD), a

seismic stability evaluation completed in 2011 found that Anderson Dam could become unstable in the event of a very large magnitude earthquake. A storage restriction of 55 feet below the dam crest was put in place, effectively reducing the storage capacity to 52,553 acre-feet. The water district and regulatory agencies believe that this restriction will prevent the uncontrolled release of water should the dam be structurally damaged during an earthquake. According to dam inundation maps provided by SCVWD dated 2016, catastrophic failure of the Leroy Anderson Dam could result in flood waters with a maximum depth of 10 feet reaching the Project Site in approximately 3 hours and 40 mins.

The Uvas, Leroy Anderson, Coyote Lake, and Elmer J. Chesbro Dams are owned and operated by the SCVWD and overseen through the SCVWD's Dam Safety Program to ensure dam safety (http://www.valleywater.org/damsafety.aspx). The SCVWD recognizes the catastrophic nature of potential dam failure and operates a comprehensive dam safety program, which includes:

- Periodic special engineering studies;
- Surveillance and monitoring programs;
- Routine inspections and maintenance activities; and
- Maintaining emergency response and preparedness plan.

5.1.9 Aboveground Water and/or Fuel Storage Tanks

During the Padre site reconnaissance conducted on April 5, 2018, no aboveground water and/or fuel storage tanks were observed at or adjacent to the Project Site.

5.1.10 Traffic Corridors

CDE defines freeways or busy traffic corridors as 100,000 vehicles per day in urban areas. Padre reviewed the California Department of Transportation (Caltrans) 2016 Annual Average Daily Traffic (AADT) Volume database for information regarding traffic corridors within 500 feet of the Project Site. Based on a review of the Caltrans database, no busy traffic corridors were identified within 500-feet of the Project Site.

A summary of the Title V environmental hazards review is presented in **Table 1** below:

Table 1 – Title V Environmental Hazards Summary

Site Identification	Power Lines within 350-ft or Cell Towers on or near the Site	Railroad tracks within 1500-ft	Earthquake Fault Zone (EFZ)	Flood Hazard	Dam Inundation	Large aboveground water/fuel tanks
South Valley Middle School	No	**Yes[1]**	No	No	**Yes[2]**	No
Site Identification	**Natural Gas pipeline(s) (>80 psig)**	**Hazardous Liquid Pipeline(s)**	**High Volume Water Pipeline(s) (≥12-inches),**	**Freeway or other busy traffic corridor within 500-ft**	**Facilities with hazardous air emissions within ¼ mile**	**Airports within 2-nautical miles**
South Valley Middle School	**Yes[3]**	No	**Yes[4]**	No	No	No

Notes:

Yes – Additional studies/information will/may be required by CDE.

No – Additional studies do not appear necessary.

1 – A Railroad easement located approximately 500 feet west of the Project Site.

2 – The Project Site is subject to inundation from the failure of the Leroy Anderson Dam.

3 – Two high pressure NGPs are located within 1,500 feet of the Project Site.

4 – Three 12-inch diameter and one 24-inch diameter water pipelines are located within 1,500 feet of the Project Site.

5.2 ENVIRONMENTAL DATABASE INFORMATION

Padre obtained environmental agency database information from EDR. The EDR report is included as **Appendix F**. The databases were reviewed to identify registrations and documented environmental incidents regarding the site and nearby properties within a one-mile radius of the Project Site. Padre also attempted to locate unplottable sites that EDR did not locate because of incomplete or incorrect address information. The following sections summarize our findings.

5.2.1 National Priorities List - Federal Superfund

The National Priorities List is a U.S. Environmental Protection Agency (U.S. EPA) listing of private, state, and federally owned sites which have been included on the federal Superfund list for remediation.

- Neither the Project Site nor properties located within a 1-mile radius of the Project Site are identified on the National Priorities List.

5.2.2 U.S. EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), Now Known As Superfund Enterprise Management System (SEMS)

The U.S. EPA's CERCLIS (renamed SEMS in 2015) Listings and are a compilation of sites that have been brought to the attention of the U.S. EPA, through various means, as being possible sites of hazardous waste activity. The CERCLIS/SEMS listings are an information database and not necessarily an action list.

- Neither the Project Site nor properties located within a ½-mile radius of the Project Site are identified on the CERCLIS/SEMS List.

5.2.3 RCRA-TSDF Listing

The U.S. EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA-Transportation, Storage, and Disposal Facilities (TSDF) database is a compilation by the U.S. EPA of reporting facilities that transport, treat, store, or dispose of hazardous waste.

- Neither the Project Site nor properties located within a ½-mile radius of the Project Site are identified on the RCRA-TSDF List.

5.2.4 RCRA - LQG's List

The U.S. EPA's RCRA Program identifies and tracks large quantity generators (LQG's). LQG's generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg acutely hazardous waste per month.

- Neither the Project Site nor properties located within a ¼-mile radius of the Project Site are identified on the RCRA-LQG's List.

5.2.5 RCRA - SQG's List

The U.S. EPA's RCRA Program identifies and tracks small quantity generators (SQG's). SQG's generate between 100 kg and 1,000 kg of hazardous waste per month.

- Neither the Project Site nor properties located within a ¼-mile radius of the Project Site are identified on the RCRA-SQG's List.

5.2.6 Emergency Response Notification System

The Emergency Response Notification System (ERNS) contains records on releases of oil and hazardous substances reported to the U.S. EPA and National Response Center of the U.S. Coast Guard.

- The Project Site is not identified on the ERNS List.

5.2.7 RCRA-CORRACTS Facilities Listing

The U.S. EPA's Resource Conservation and Recovery Act (RCRA) Corrective Action Sites Listing contains information pertaining to hazardous waste treatment, storage, and disposal facilities (RCRA TSD) which have conducted, or are currently conducting, a corrective action(s) as regulated under RCRA.

- The Project Site is not identified on the RCRA-CORRACTS List.
- One property located within a 1-mile radius of the Project Site is identified on the RCRA-CORRACTS List.

(1) Haz/Control Inc. is located at 731 Renz Lane approximately 4,200 feet southeast of the Project Site. This facility is also identified as South Bay Chemical Company Inc. The facility is a closed hazardous waste transfer, treatment, and storage facility. The facility neutralized acids/bases, solidified metal bearing sludge, blended waste fuels, and treated and repackaged lab packed materials. No onsite disposal occurred. DTSC's Envirostor website lists the property as "Inactive – Needs Evaluation as of 6/26/2009". Based on the distance from the Project Site, this property is not considered a REC.

5.2.8 CA SWF/LF Listings

State and Tribal; landfill and/or solid waste disposal site listings. The Solid Waste Facility/Landfill facility (SWF/LF), solid waste information system (SWIS) maintains records of active, closed and inactive landfills.

- Neither the Project Site nor properties located within a ½-mile radius of the Project Site are identified on the CA SWF/LF List.

5.2.9 UST Listings

USTs are regulated under Subtitle I of RCRA and must be registered with the state department responsible for administering the UST program. In California, the State Water Resources Control Board has compiled a listing of UST sites. Active UST facilities lists are gathered from local regulatory agencies.

- The Project Site is not identified on the UST List.
- Two properties located within a ¼-mile radius of the Project Site are identified on the UST List.

(1) Gilroy Unified School District's Transportation Department is located at 8067 Swanston Lane approximately 580 feet northwest of the Project Site. This facility previously utilized a 1,000-gallon waste oil UST, however, the UST was removed circa 1987. No permitted USTs are identified in the SWRCB's Geotracker database.

(2) Sodexho – Lohmar is located at 8190 Murray Avenue approximately 510 feet northeast of the Project Site. This facility is listed as having a UST, however no other

information is provided. No permitted USTs are identified in the SWRCB's Geotracker database.

5.2.10 Historical UST

The Hazardous Substance Storage Container Database is a historical listing of UST sites, and is maintained by the California State Water Resources Control Board.

- Neither the Project Site nor properties located within a ¼-mile radius of the Project Site are identified on the Historical UST List.

5.2.11 CA FID UST

The California Facility Inventory Database (CA FID) UST contains a historical listing of active and inactive underground storage tank locations from the State Water Resources Control Board.

- The Project Site is not identified on the CA FID UST List.
- One property located within a ¼-mile radius of the Project Site is identified on the CA FID UST List.

(1) The former Gilroy Canning Company was located at 1 Lewis Lane approximately 1,000 feet southwest of the Project Site. This facility formerly operated USTs containing gasoline, boiler fuel, and diesel/heating oil. Soil and groundwater remediation activities (soil vapor extraction with air sparging) was performed from May 1999 to November 2001. Additionally, groundwater monitoring from 1996 to 2003 indicated that the shallow groundwater flow direction was to the south (away from the Project Site). Case closure for the USTs was granted in December 2003 by the California Regional Water Quality Board – Central Coast Region (CRWQB – CCR). Based on the distance from the Project Site and that it is hydrogeologically downgradient, this property is not considered a REC.

5.2.12 Leaking Underground Storage Tank List

The California Regional Water Quality Control Board is the agency with jurisdiction over leaking underground storage tanks (LUSTs) in the region of the site.

- The Project Site is not identified on the LUST List.
- Ten properties within located within a ½-mile radius of the Project Site are identified on the LUST List. All of these properties have received regulatory closure. The properties located within a ¼-mile radius are discussed below.

(1) Gilroy Unified School District's Transportation Department is located at 8067 Swanston Lane approximately 580 feet northwest of the Project Site. This facility previously utilized a 1,000-gallon waste oil UST. A release was discovered in 1986 from the piping. Subsequently, the UST and the contaminated soil were removed in 1987. Case closure was granted by the City of Gilroy in March 1998. Based on distance and age of the release, this property is not considered a REC.

(2) Lindsay and Friends Antique is located at 7888 Monterey Street approximately 650 feet southwest of the Project Site. In 2008, during building demolition activities, a 320-gallon UST was discovered. The UST was removed and relatively low concentrations of petroleum hydrocarbons were identified in soil beneath the UST. Additional sampling indicated that groundwater had not been impacted. Based on the soil and groundwater results, case closure was granted by the City of Gilroy – Fire Marshal Office in January 2011. Based on the results of soil and groundwater sampling, this property is not considered a REC.

(3) Howard Tire Company is located at 7920 Monterey Street approximately 710 feet west of the Project Site. A UST piping leak (gasoline) to soil was discovered in March 1993. Impacted soil was excavated and disposed of at an approved facility. Case closure was granted in May 1997. Based on the distance and age of the release, this property is not considered a REC.

(4) The former Gilroy Canning Company was located at 1 Lewis Lane approximately 1,000 feet southwest of the Project Site. This facility formerly operated USTs containing gasoline, boiler fuel, and diesel/heating oil. Soil and groundwater remediation activities (soil vapor extraction with air sparging) was performed from May 1999 to November 2001. Additionally, groundwater monitoring from 1996 to 2003 indicated that the shallow groundwater flow direction was to the south (away from the Project Site). Case closure for the USTs was granted in December 2003 by the CRWQB – CCR. Based on the distance from the Project Site and that it is hydrogeologically downgradient, this property is not considered a REC.

(5) American Muffler is located at 7998 Monterey Street approximately 1,130 feet northwest of the Project Site is a former retail gasoline station. During 1989 a soil sample collected beneath a UST indicated elevated concentrations of petroleum hydrocarbons. No remediation was performed, and the UST was filled with slurry and closed in-place. Case closure was granted by the City of Gilroy in December 1998. Based distance and age of the release, this property is not considered a REC.

5.2.13 AST List

The Aboveground Storage Tank (AST) lists facilities with registered aboveground petroleum storage tanks, compiled by the State Water Resources Control Board (SWRCB).

- Neither the Project Site nor properties located within a ¼-mile radius of the Project Site are identified on the AST List.

5.2.14 US Eng Controls List

The US Engineering Controls list consists of sites with engineering controls in place that include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

- Neither the Project Site nor properties located within a ½-mile radius of the Project Site are identified on the US ENG Controls List.

5.2.15 US Inst Controls List

The US Institutional Controls list consists of sites with institutional controls in place that include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining onsite. Deed restrictions are generally required as part of the institutional controls.

- Neither the Project Site nor properties located within a ½-mile radius of the Project Site are identified on the US INST Controls List.

5.2.16 Historic Cal-Sites List

The State of California Historic Cal-Sites database contains potential or confirmed hazardous substance release properties. In 1996, the California Environmental Protection Agency reevaluated and significantly reduced the number of sites in the Cal-sites database.

- The Project Site is not identified on the Historic Cal-Site List.

- One property Neither the Project Site nor properties located within a ½-mile radius of the Project Site are identified on the Historic Cal-sites List.

(1) Gilroy – MGP – 1 was located at Monterey Street and 6th Street approximately 2,500 feet south of the Project Site. DTSC's Envirostor website indicates that this facility is a backlog log project since 1991. No other information is provided. Based on distance, this property is not considered a REC.

5.2.17 WMUD/SWAT List

The Waste Management Unit Database System (WMUDS) is used by the State Water Resources Control Boards for program tracking and inventory of waste management units. The Solid Waste Assessment Test Program (SWAT) is a database maintained by the California Water Resources Control Board for information on the ground water monitoring of sanitary landfills.

- Neither the Project Site nor properties located within a ½-mile radius of the Project Site are identified on the WMUDS/SWAT List.

5.2.18 California Hazardous Materials Incident Reporting System

The California Hazardous Materials Incident Reporting System (CHMIRS) is maintained by the California Office of Emergency Services (OES) and contains information on reported hazardous materials accidental releases or spills.

- Neither the Project Site nor properties located within a 1-mile radius of the Project Site are identified on the CHMIRS List.

5.2.19 CERCLIS-NFRAP List

The Comprehensive Environmental Response, Compensation, and Liability Information System - No Further Remedial Action Planned (CERCLIS-NFRAP) database is a list of sites that were removed CERCLIS in 1995. These sites may have been removed due to the following: after an initial investigation no contamination was found; contamination was removed quickly without the need to place the site on the NPL; or the contamination was not serious enough to require Federal Superfund action or NPL consideration. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

- Neither the Project Site nor properties located within a ½-mile radius of the Project Site are identified on the CERCLIS-NFRAP List.

5.2.20 Voluntary Cleanup Program List

The Voluntary Cleanup Program database is maintained by the Department of Toxic Substances Control (DTSC). The VCP database contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have requested that DTSC oversee the investigation and/or cleanup activities and have agreed to provide coverage for DTSC's Costs.

- Neither the Project Site nor properties located within a ½-mile radius of the Project Site are identified on the VCP List.

5.2.21 Hazardous Waste Information System

The Hazardous Waste Information System (HAZNET) database is developed from copies of hazardous waste manifests required for proper disposal of wastes and received each year by the Department of Toxic Substances Control (DTSC).

- The Project Site is identified on the HAZNET List for the disposal of asbestos containing waste, organic solids, unspecified solvent mixture, unspecified alkaline solution, and aged or surplus inorganics. The proper disposal of these materials from the Project Site is not considered a REC.

5.2.22 California SLIC Program

The California SLIC (Spills, Leaks, Investigations, and Cleanup) is designed to protect and restore water quality from spills, leaks and similar discharges. The database is maintained by the State Water Resources Control Board (SWRCB).

- The Project Site is no identified on the CA SLIC List.
- One property located within a ½-mile radius of the Project Site is identified on the CA SLIC List.

(1) Gilroy Cannery Development (formerly Gilroy Canning Company) is located at 1 Lewis Lane approximately 1,000 feet southwest of the Project Site. This facility formerly

operated USTs containing gasoline, boiler fuel, and diesel/heating oil was identified as a LUST site (Section 5.2.12). Case closure for the USTs was granted in December 2003 by the CRWQB – CCR. Post case closure for the LUST, soil gas sampling identified tetrachloroethylene (PCE) at concentrations exceeding regulatory screening levels. A residential development is currently proposed, and the Santa Clara County Department of Environmental Health is overseeing the proper mitigation of soil vapor beneath the proposed structure(s). This property is not considered a REC.

5.2.23 ENVIROSTOR List

The Department of Toxic Substances Control (DTSC) Site Mitigation and Brownfields Reuse Program (SMBRPs) maintain a database that identifies sites that have known contamination or sites for which there may be reasons to investigate further.

- The Project Site is not identified on the Envirostor Database.
- Two properties located within a 1-mile radius of the Project Site are identified on the Envirostor Database.

(1) Gilroy – MGP – 1 was located at Monterey Street and 6th Street approximately 2,500 feet south of the Project Site. DTSC's Envirostor website indicates that this facility is a backlog log project since 1991. No other information is provided. Based on distance, this property is not considered a REC.

(2) Verizon Wireless and South Bay Chemical Company, aka Haz/Control Inc., are located at 721 - 731 Renz Lane approximately 4,200 feet southeast of the Project Site. This facility is also identified as Haz/Control Inc. and previously discussed in Section 5.2.7. The facility is a closed hazardous waste transfer, treatment, and storage facility. The facility neutralized acids/bases, solidified metal bearing sludge, blended waste fuels, and treated and repackaged lab packed materials. No onsite disposal occurred. DTSC's Envirostor website lists the property as "Inactive – Needs Evaluation as of 6/26/2009". Based on the distance from the Project Site, this property is not considered a REC.

6.0 CONCLUSIONS AND RECOMMENDATIONS

According to historic aerial photographs, topographic maps and Sanborn maps, the southwest portion of the Project Site was developed as part of the Gilroy High & Junior High Schools in the 1920s. The central, northeast and southeast portions of the Project Site were planted in orchards since at least 1939 until the early 1950s. By 1956 additional classroom buildings replaced most of the orchards, except for a small area located along the eastern property boundary. This final section of orchards was removed between 1956 and 1963. The existing main classroom buildings (not including portables) at the Project Site were all constructed by 1968.

The Project Site consists of approximately 20.5 acres of a larger parcel of land identified by the Santa Clara County Assessor's Office to be included as a portion of Assessor Parcel

Number (APN) 841-02-049. No environmental liens or activities use limitations (AULs) were identified for the Project Site.

According to water utility maps provided by the City of Gilroy Public Works Department, there are four underground water pipelines (≥12-inch diameter) located within 1,500 feet of the Project Site.

According to PG&E, there are two high-pressure natural gas pipelines located within 1,500 feet of the Project Site, and according to the U.S. DOT Pipeline and Hazardous Materials Safety Administration (PHMSA), there are no hazardous liquid pipelines located within 1,500 feet of the Project Site.

According to PG&E, the Project Site is not located within 100 feet from the edge of an easement for a 50-133 kilovolt (kV) line; 150 feet from the edge of an easement for a 220-230kV line; or 350 feet from the edge of an easement for a 500-550kV line. Therefore, there are no CDE setback requirements for the Project Site.

A railroad easement was identified approximately 500 feet west of the Project Site. This is an active railroad easement, owned and operated by Union Pacific.

According to the *Geologic Map of San Francisco – San Jose Quadrangle Map No. 5A (1991)*, California Geological Survey, the nearest exposure of potentially asbestos-bearing ultramafic rocks is located approximately 3 miles northwest of the Project Site. Therefore, the potential for naturally occurring asbestos (NOA) to be present at the Project Site from weathering and deposition of ultramafic rock outcrops is considered a REC

Leroy Anderson dam, located approximately 10.8 miles northwest of the Project Site, is the nearest dam that could potentially impact the Project Site in the event of catastrophic failure. According to dam inundation maps provided by SCVWD dated 2016, catastrophic failure of the Leroy Anderson Dam could result in flood waters with a maximum depth of 10 feet reaching the Project Site in approximately 3 hours and 40 mins.

Based on the finding of the Phase I ESA, Padre concludes that the California Department of Education (CDE) will require the completion of risk management plans and/or mitigation measures for the following Title V environmental hazards identified for the Project Site:

- Four high volume (≥12-inch diameter) water pipelines located within 1,500 feet of the Project Site;
- Two high-pressure (>80 psig) natural gas pipelines located within 1,500 feet of the Project Site;
- A railroad easement located within 1,500 feet of the Project Site; and
- Dam inundation in the event of catastrophic failure, typically resulting from significant seismic events.

Based on the finding of the Phase I ESA, Padre concludes that the California Department of Toxic Substances Control (DTSC) will require the completion of a Preliminary Environmental Assessment (PEA) at the Project Site based on the following RECs:

- Potential presence of pesticides and arsenic from historic agricultural use;
- Potential presence of residual pesticides in soil from direct application of termiticides and/or ant control around the around the perimeters of building structures;
- Potential presence of residual lead in soil from weathering of lead-based paint from historic buildings;
- Potential presence of PCBs in soil from weathering of caulking used in window panes containing PCBs, and PCBs in soil beneath pole- and pad-mounted electrical transformers; and
- Potential presence of NOA in soil from the weathering and deposition of ultramafic rock outcrops located within 10 miles of the Project Site.

7.0 LIMITATIONS

This report has been prepared by Padre for the Gilroy Unified School District under the professional supervision of the principal and/or senior staff whose signatures and/or seals(s) appear hereon. Neither Padre, nor any employee assigned to this assessment program, has an interest or contemplated interest, financial or otherwise, in the subject site or surrounding properties, or in any entity that owns, leases, or occupies the subject site or surrounding properties or that may be responsible for environmental issues identified during the course of this assessment, or a personal bias with respect to the parties involved.

The information contained in this report has received appropriate technical review and approval. The conclusions represent professional judgment and are founded upon the findings of the assessment activities identified in the report and the interpretation of such data, based on our experience and expertise according to the existing standard of care. No other warranty or limitation exists, either expressed or implied.

In expressing the opinions stated in this report, Padre has exercised the degree of skill and care ordinarily exercised by a reasonable, prudent environmental professional in the same community and in the same time frame, given the same or similar facts and circumstances. Documentation and data provided by others, or from the public domain, and referred to in the preparation of this assessment, have been used and referenced with the understanding that Padre does not assume responsibility or liability for their accuracy.

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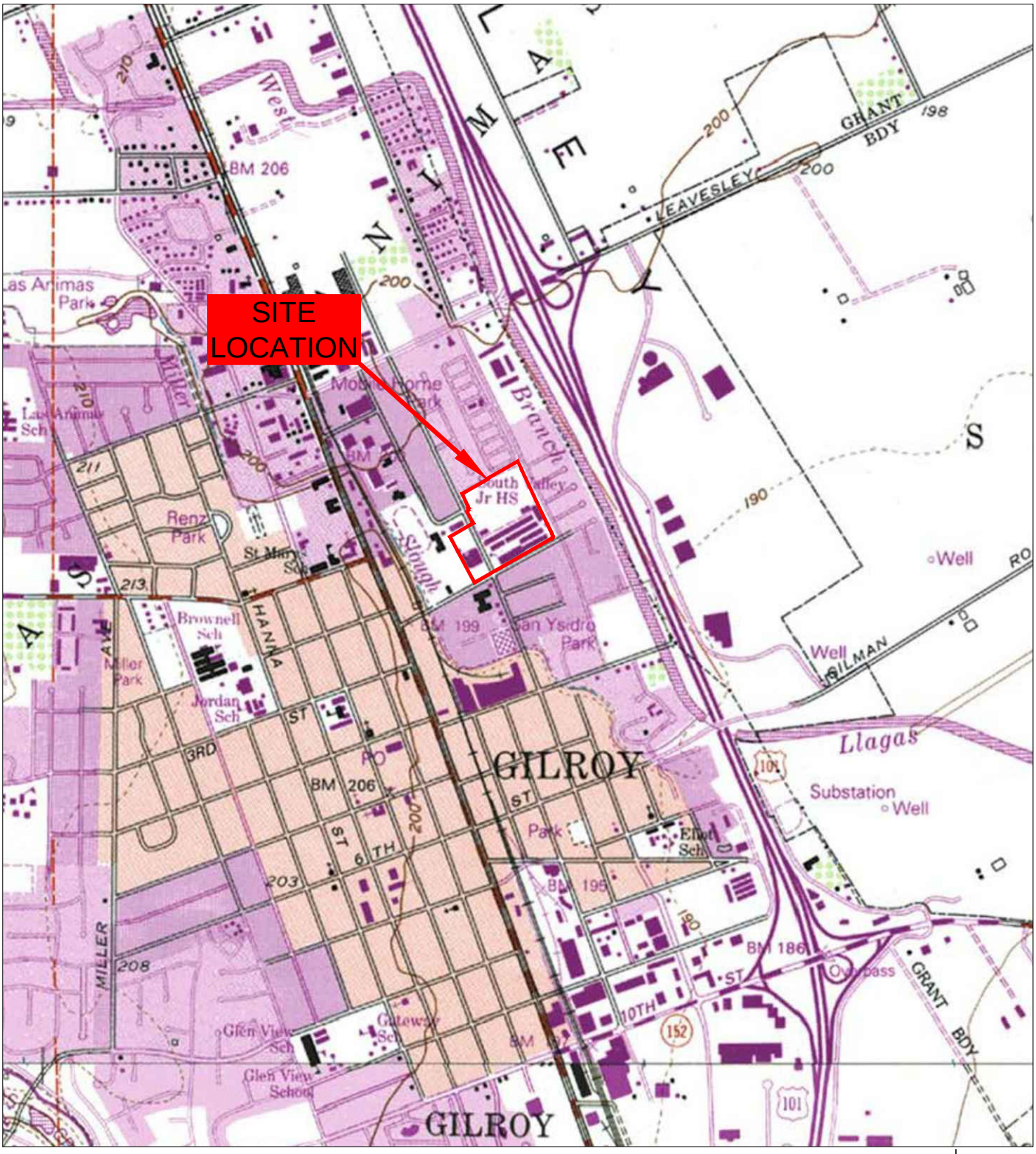
PLATES



U.S.G.S. 7.5 MINUTE QUADRANGLE
GILROY, CA 1955 (revised 1993)

0 1500'
SCALE

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

SOUTH VALLEY MIDDLE SCHOOL
GILROY UNIFIED SCHOOL DISTRICT
385 I.O.O.F. AVENUE
GILROY, SANTA CLARA COUNTY, CALIFORNIA

PROJECT NO.	DATE	DR. BY	APP. BY
1801-0731	5/11/18	AC	AJK

PLATE 1

SITE LOCATION

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (03/17)

0 300
FEET

SOUTH VALLEY MIDDLE SCHOOL
GILROY UNIFIED SCHOOL DISTRICT
385 I.O.O.F. AVENUE
GILROY, SANTA CLARA COUNTY, CALIFORNIA

PROJECT NO.	DATE	DR. BY	APP. BY
1801-0731	5/11/18	AC	AJK

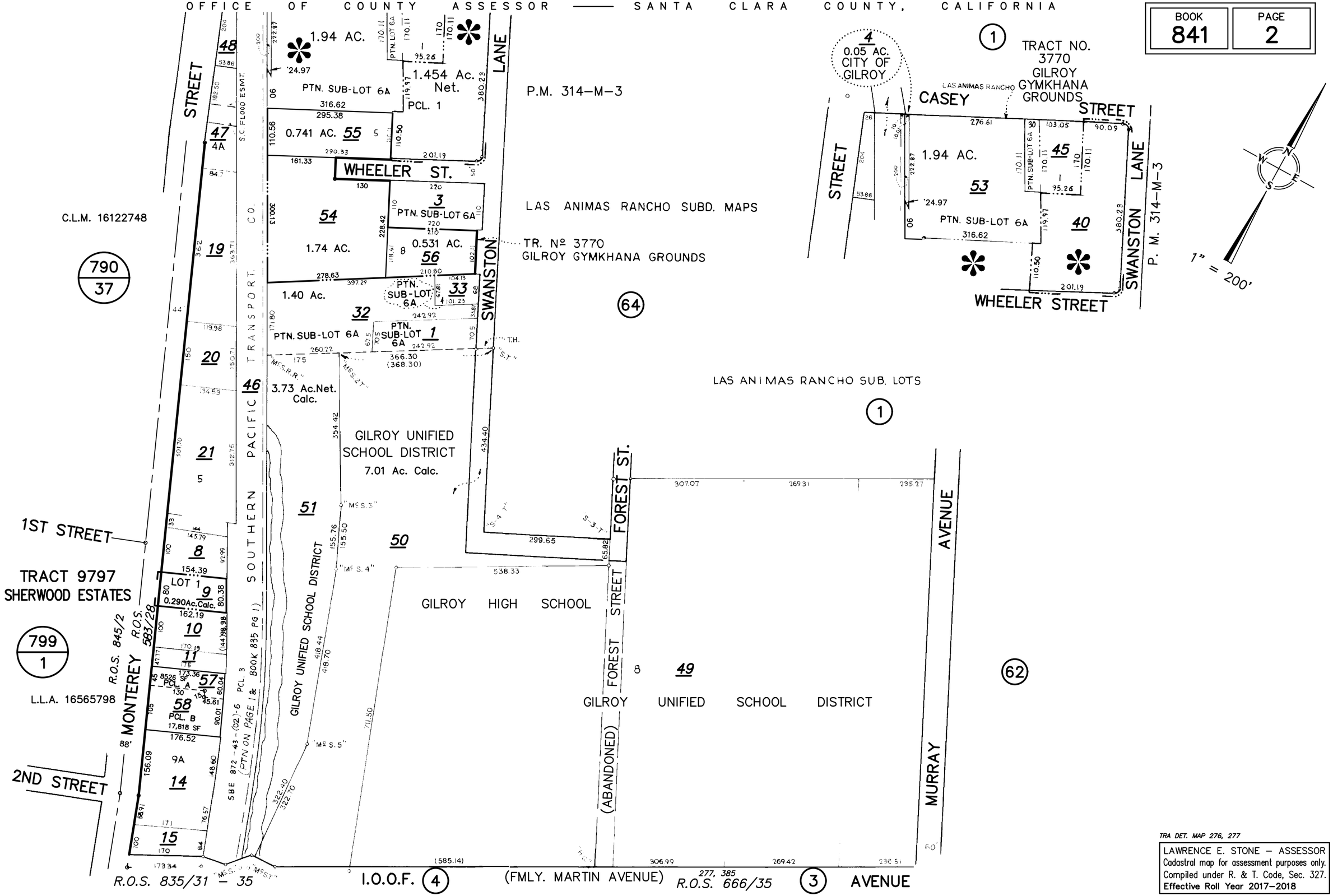
PLATE 2

SITE MAP

APPENDIX A
ASSESSOR'S PARCEL MAP
AND
FLOOD INSURANCE RATE MAP

OFFICE OF COUNTY ASSESSOR — SANTA CLARA COUNTY, CALIFORNIA

BOOK	PAGE
841	2



TRA DET. MAP 276, 277

LAWRENCE E. STONE – ASSESSOR
Cadastral map for assessment purposes only.
Compiled under R. & T. Code, Sec. 327.
Effective Roll Year 2017–2018

National Flood Hazard Layer FIRMette

FEMA

37°1'10.88"N

121°34'22.09"W

121°33'44.63"W

37°0'42.16"N

Feet

0 250 500 1,000 1,500 2,000

1:6,000

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth
- Regulatory Floodway *Zone AE, AO, AH, VE, AR*

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- B 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- 8 Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The base map shown complies with FEMA's base map accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/6/2018 at 4:56:00 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: base map imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

APPENDIX B
HISTORICAL AERIAL PHOTOGRAPHS, TOPOGRAPHIC MAPS, AND SANBORN MAPS

INQUIRY #: 5223295.26

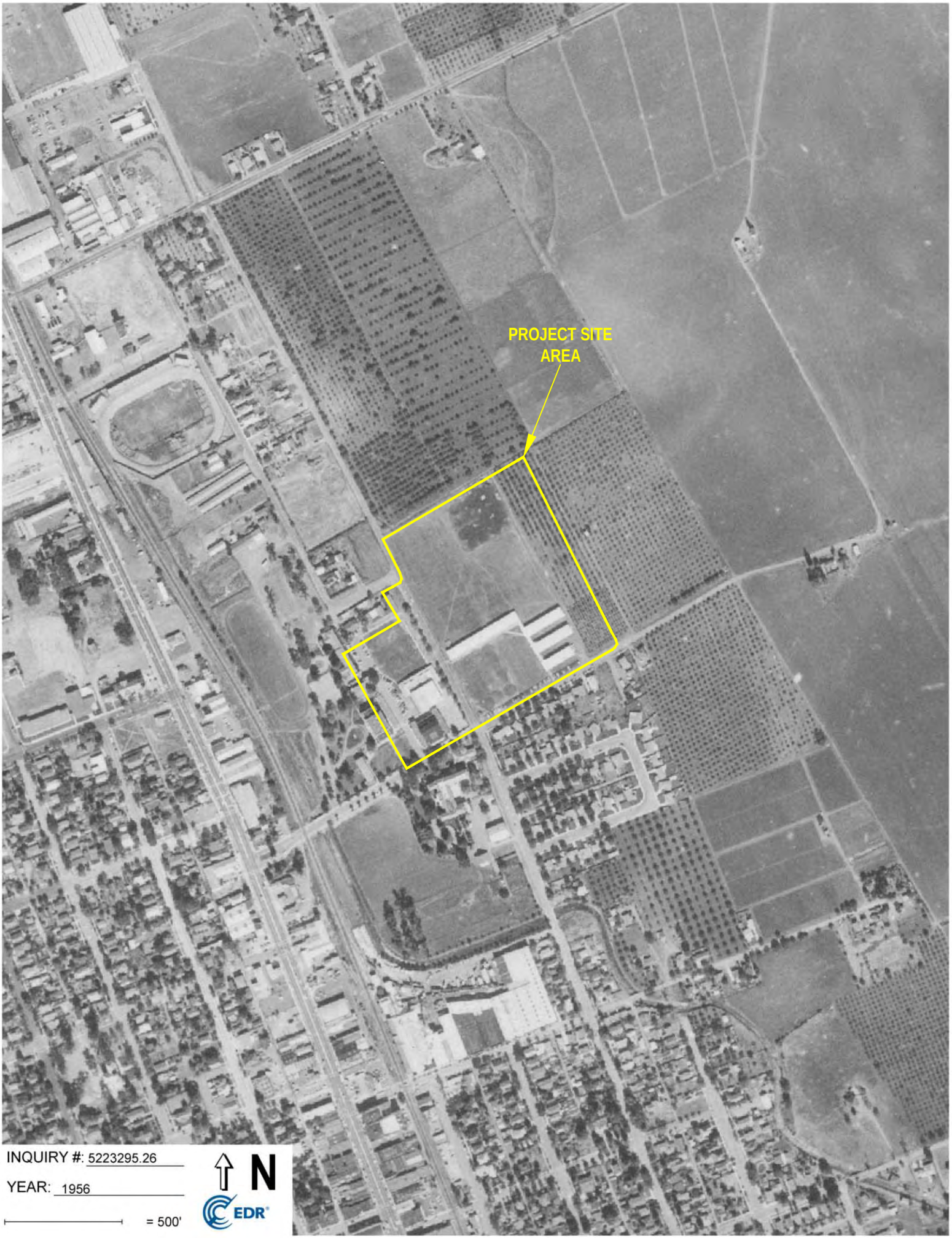
YEAR: 1939

= 500'

N

EDR

PROJECT SITE
AREA
INQUIRY #: 5223295.26
YEAR: 1950
= 500'
N
EDR


PROJECT SITE
AREA
INQUIRY #: 5223295.26
YEAR: 1956
= 500'
N
EDR

INQUIRY #: 5223295.26

YEAR: 1963

= 500'

N

EDR

INQUIRY #: 5223295.26

YEAR: 1968

= 500'

N

EDR

PROJECT SITE
AREA
INQUIRY #: 5223295.26
YEAR: 1974
= 500'
N
EDR

INQUIRY #: 5223295.26

YEAR: 1982

= 500'

N

EDR

INQUIRY #: 5223295.26

YEAR: 1998

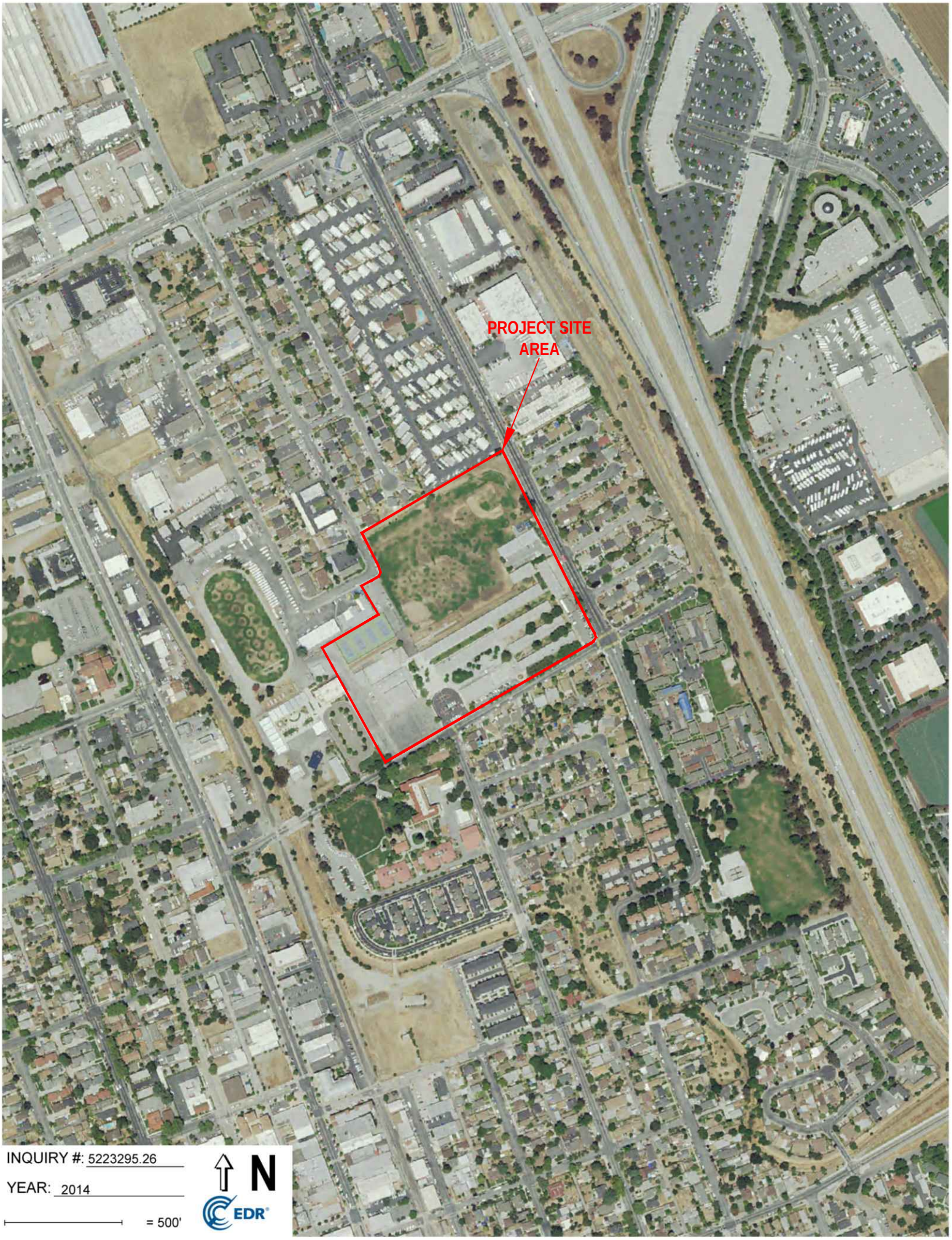
= 500'

EDR

INQUIRY #: 5223295.26

YEAR: 2006

= 500'

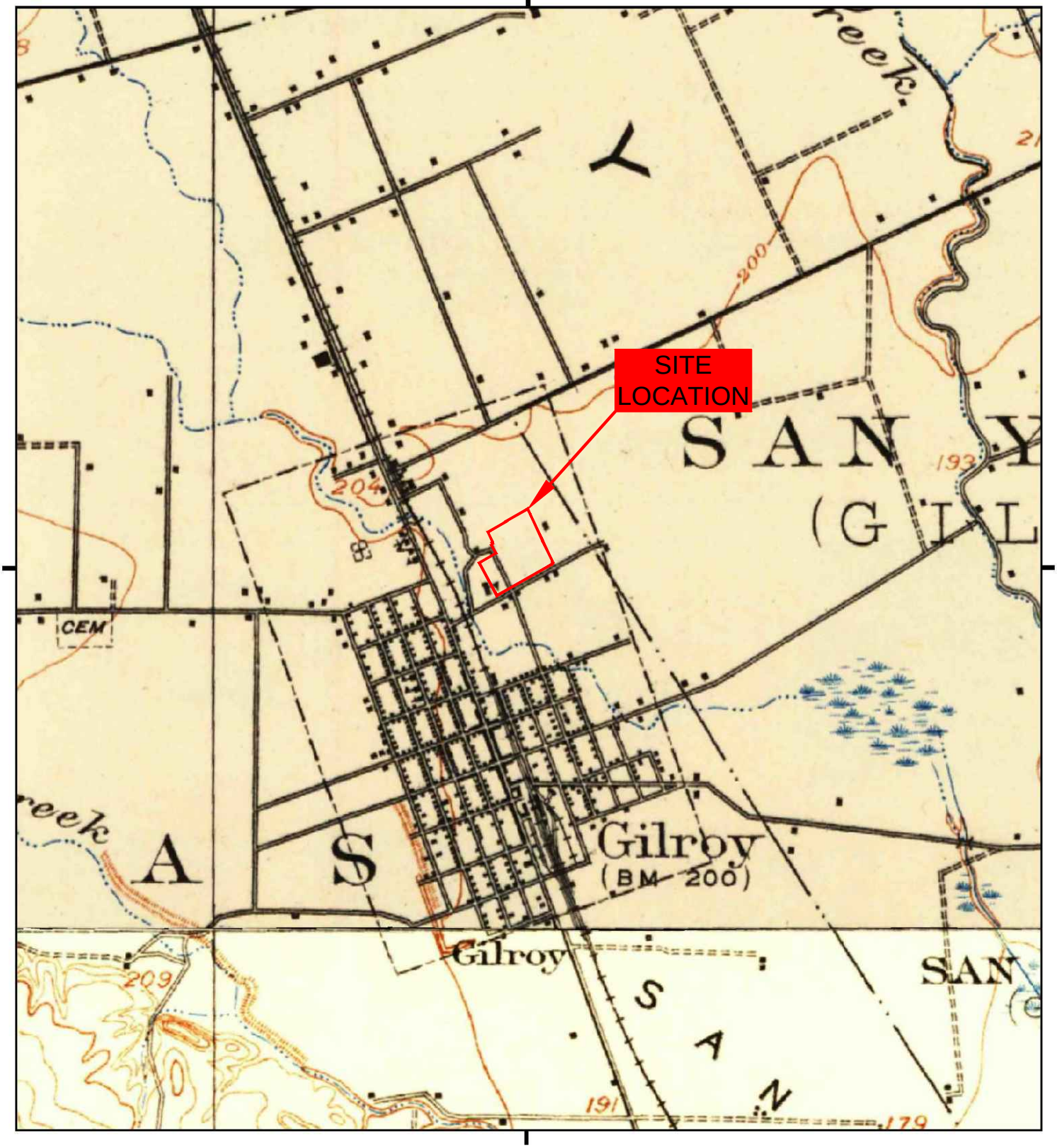


INQUIRY #: 5223295.26

YEAR: 2014

Historical Topo Map

1917



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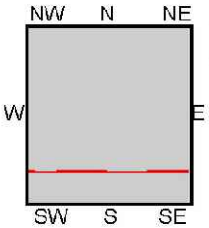


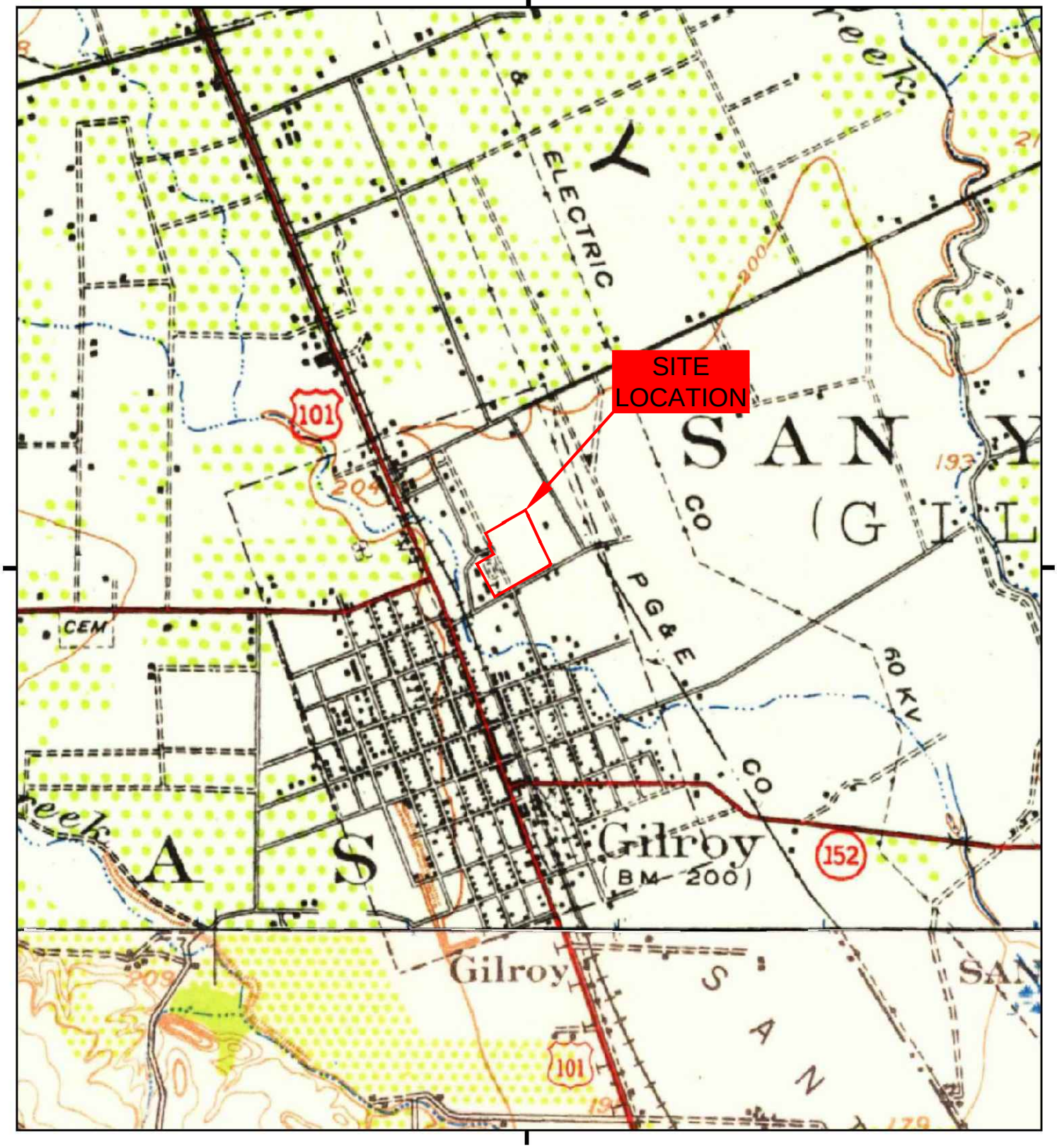
TP, Morgan Hill, 1917, 15-minute
S, San Juan Bautista, 1917, 15-minute

SITE NAME: South Valley Middle School
ADDRESS: 385 I.O.O.F. Avenue
Gilroy, CA 95020
CLIENT: Padre Associates, Inc

N

Historical Topo Map

1939



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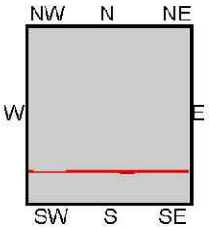


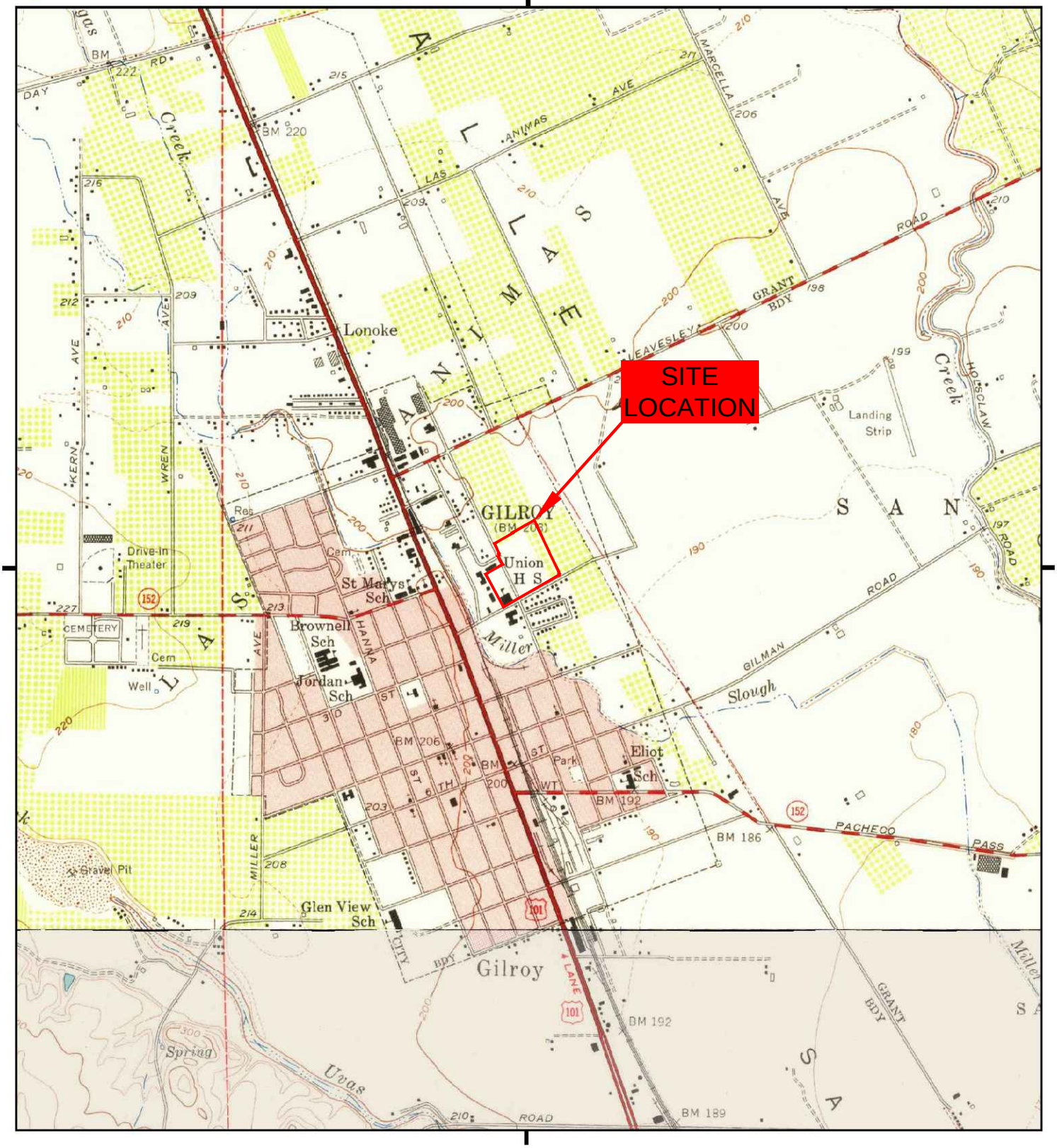
TP, Morgan Hill, 1939, 15-minute
S, San Juan Bautista, 1939, 15-minute

SITE NAME: South Valley Middle School
ADDRESS: 385 I.O.O.F. Avenue
Gilroy, CA 95020
CLIENT: Padre Associates, Inc

N

Historical Topo Map

1955



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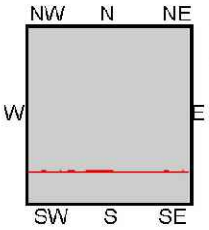


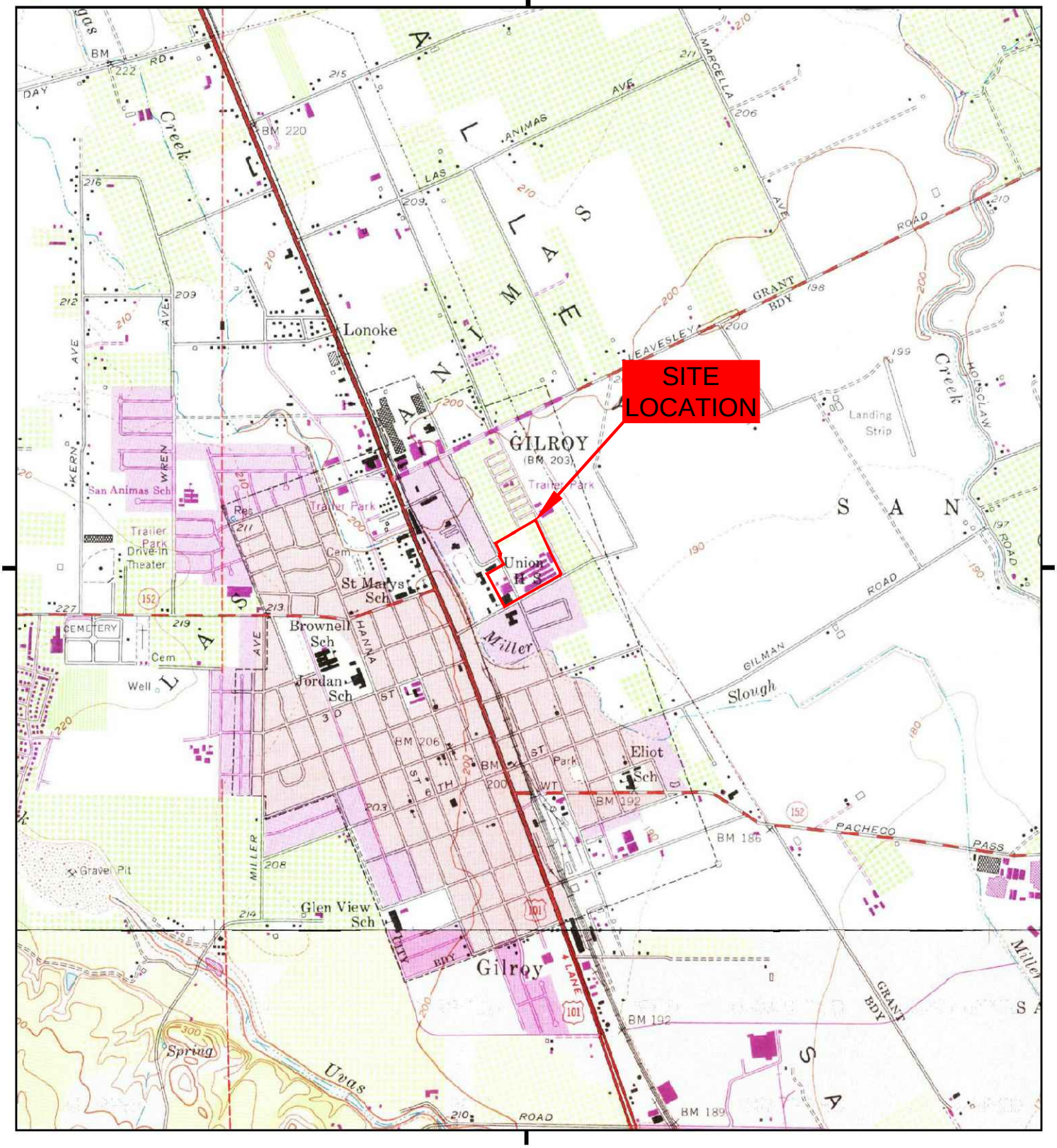
TP, Gilroy, 1955, 7.5-minute
S, Chittenden, 1955, 7.5-minute

SITE NAME: South Valley Middle School
ADDRESS: 385 I.O.O.F. Avenue
Gilroy, CA 95020
CLIENT: Padre Associates, Inc

N

Historical Topo Map

1968



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NW N NE
W E
SW S SE

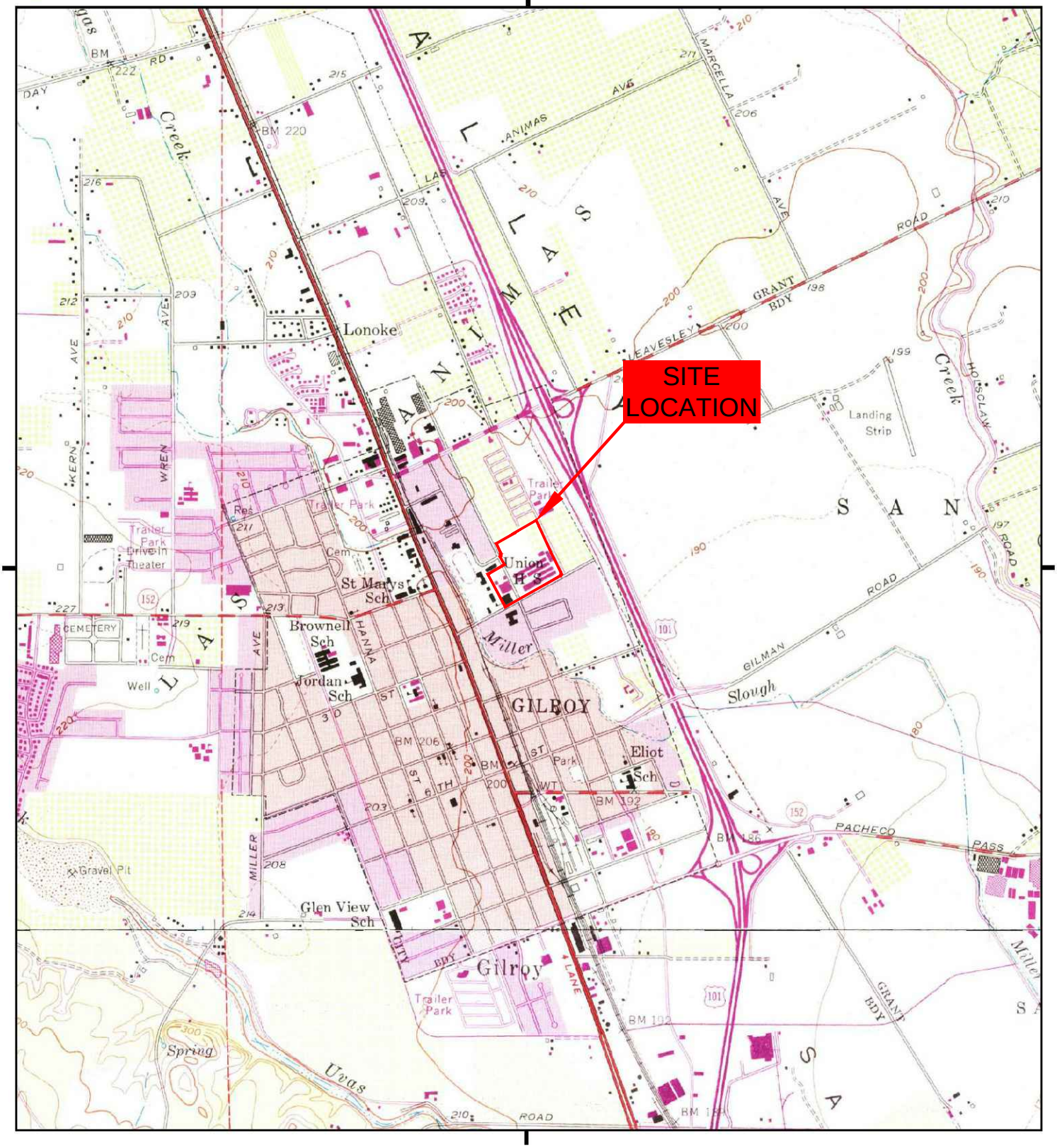
TP, Gilroy, 1968, 7.5-minute
S, Chittenden, 1968, 7.5-minute

SITE NAME: South Valley Middle School
ADDRESS: 385 I.O.O.F. Avenue
Gilroy, CA 95020
CLIENT: Padre Associates, Inc

N

Historical Topo Map

1973



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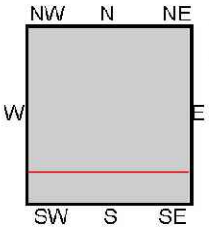


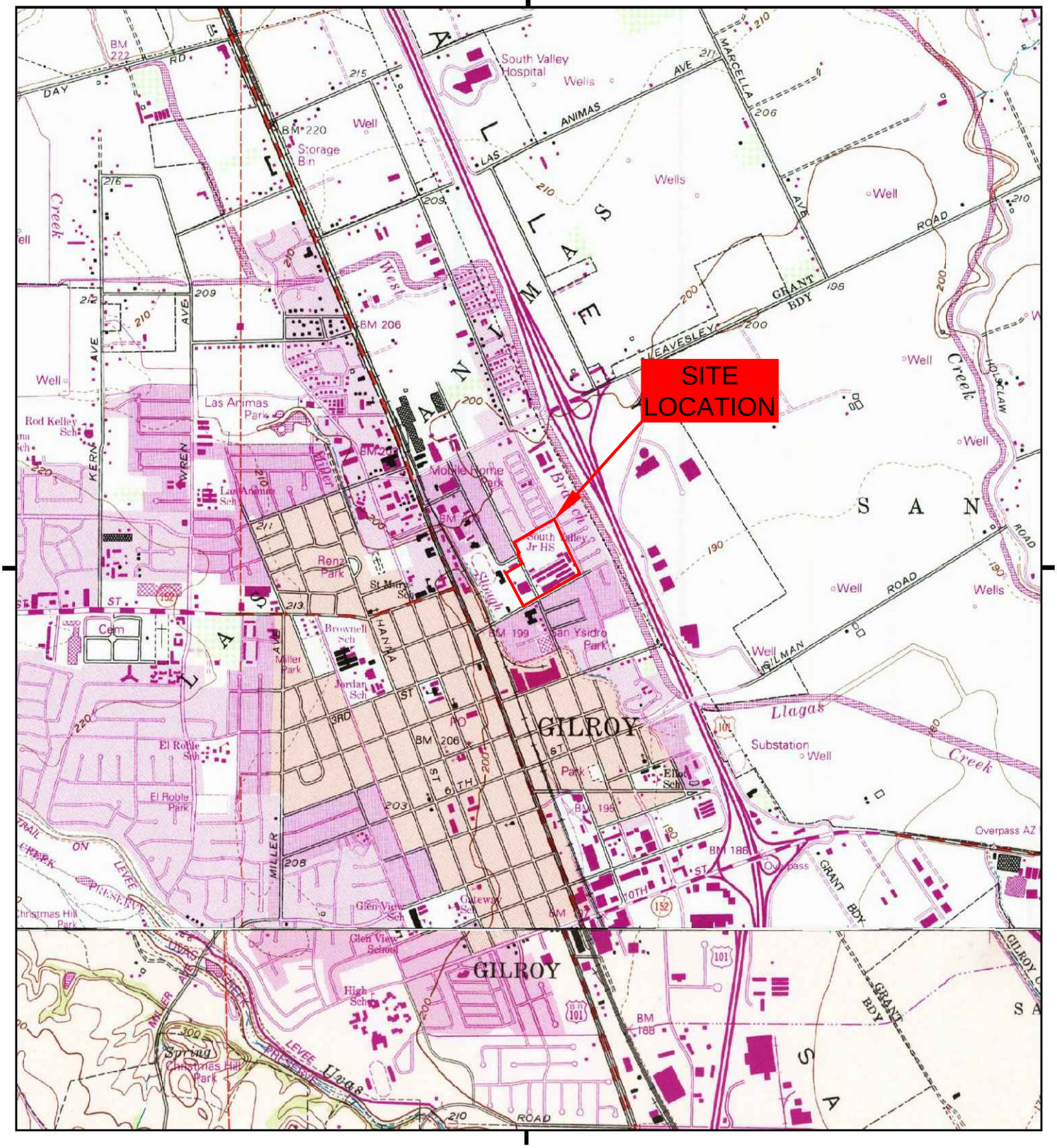
TP, Gilroy, 1973, 7.5-minute
S, Chittenden, 1973, 7.5-minute

SITE NAME: South Valley Middle School
ADDRESS: 385 I.O.O.F. Avenue
Gilroy, CA 95020
CLIENT: Padre Associates, Inc

N

Historical Topo Map

1993



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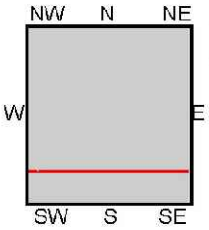


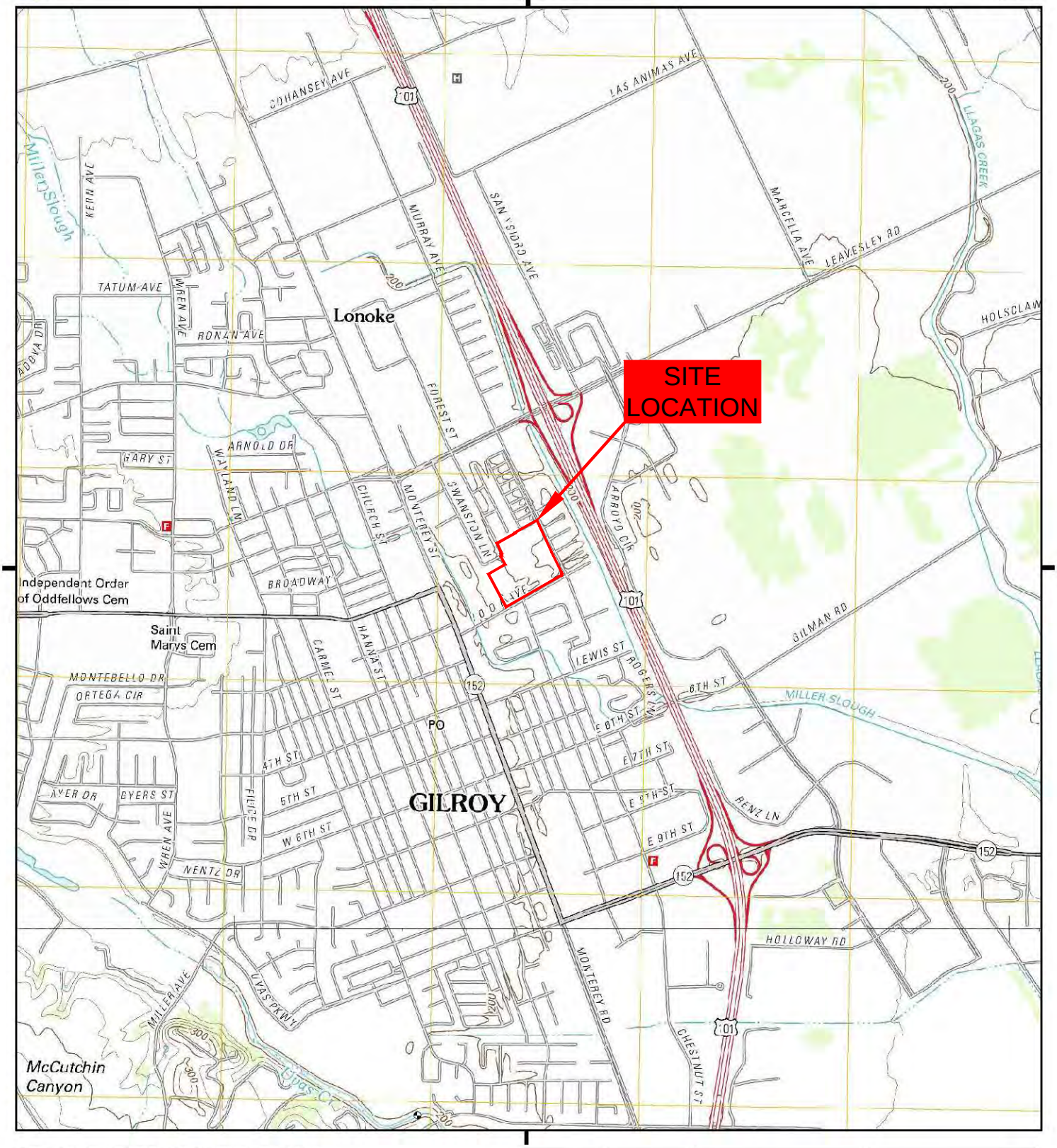
TP, Gilroy, 1993, 7.5-minute
S, Chittenden, 1993, 7.5-minute

SITE NAME: South Valley Middle School
ADDRESS: 385 I.O.O.F. Avenue
Gilroy, CA 95020
CLIENT: Padre Associates, Inc

N

Historical Topo Map

2012



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NW N NE
W E
SW S SE

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S, Chittenden, 2012, 7.5-minute

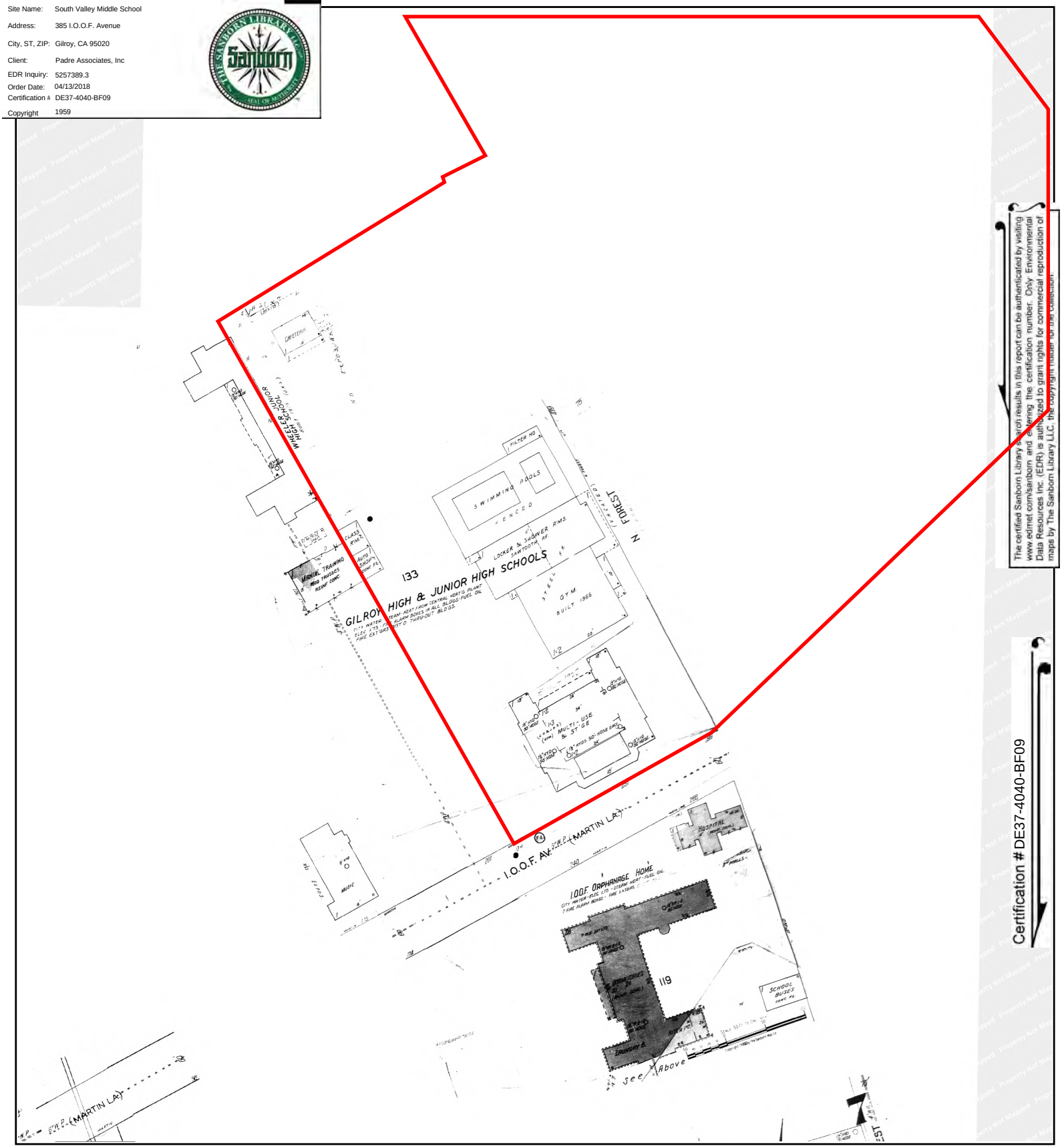
SITE NAME: South Valley Middle School
ADDRESS: 385 I.O.O.F. Avenue
Gilroy, CA 95020
CLIENT: Padre Associates, Inc

N

Certified Sanborn® Map

1959

Site Name: South Valley Middle School
Address: 385 I.O.O.F. Avenue
City, ST, ZIP: Gilroy, CA 95020
Client: Padre Associates, Inc
EDR Inquiry: 5257389.3
Order Date: 04/13/2018
Certification # DE37-4040-BF09
Copyright 1959



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This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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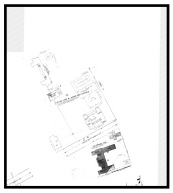
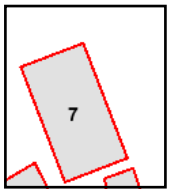




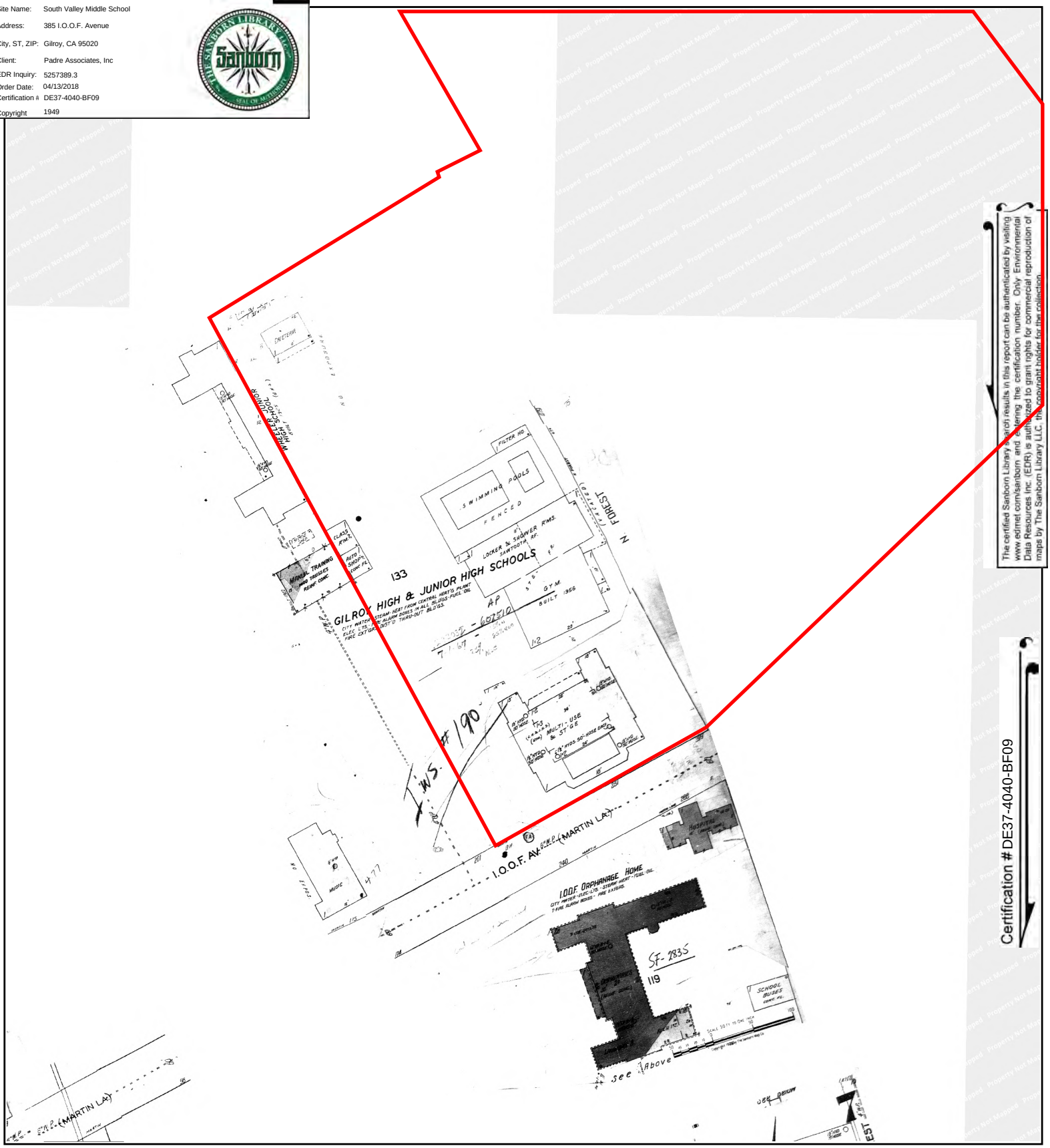
Volume 1, Sheet 7

N

Certified Sanborn® Map

1949

Site Name: South Valley Middle School
Address: 385 I.O.O.F. Avenue
City, ST, ZIP: Gilroy, CA 95020
Client: Padre Associates, Inc
EDR Inquiry: 5257389.3
Order Date: 04/13/2018
Certification # DE37-4040-BF09
Copyright 1949



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Certification # DE37-4040-BF09

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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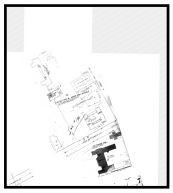
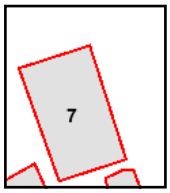




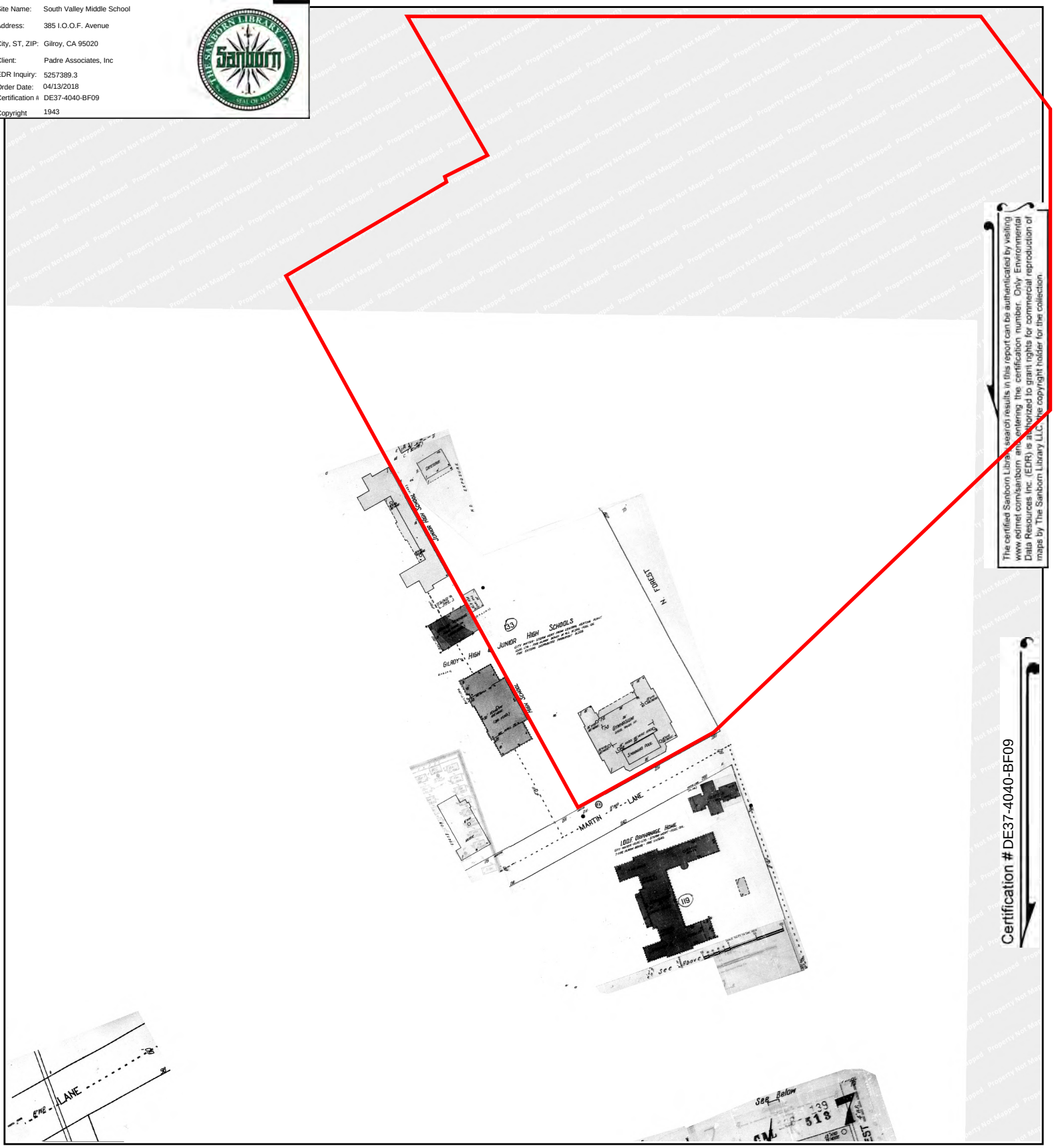
Volume 1, Sheet 7

N

Certified Sanborn® Map

1943

Site Name: South Valley Middle School
Address: 385 I.O.O.F. Avenue
City, ST, ZIP: Gilroy, CA 95020
Client: Padre Associates, Inc
EDR Inquiry: 5257389.3
Order Date: 04/13/2018
Certification # DE37-4040-BF09
Copyright 1943



The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # DE37-4040-BF09

This Certified Sanborn Map combines the following sheets.
Outlined areas indicate map sheets within the collection.

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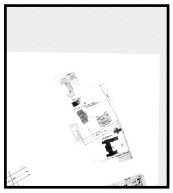
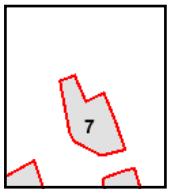




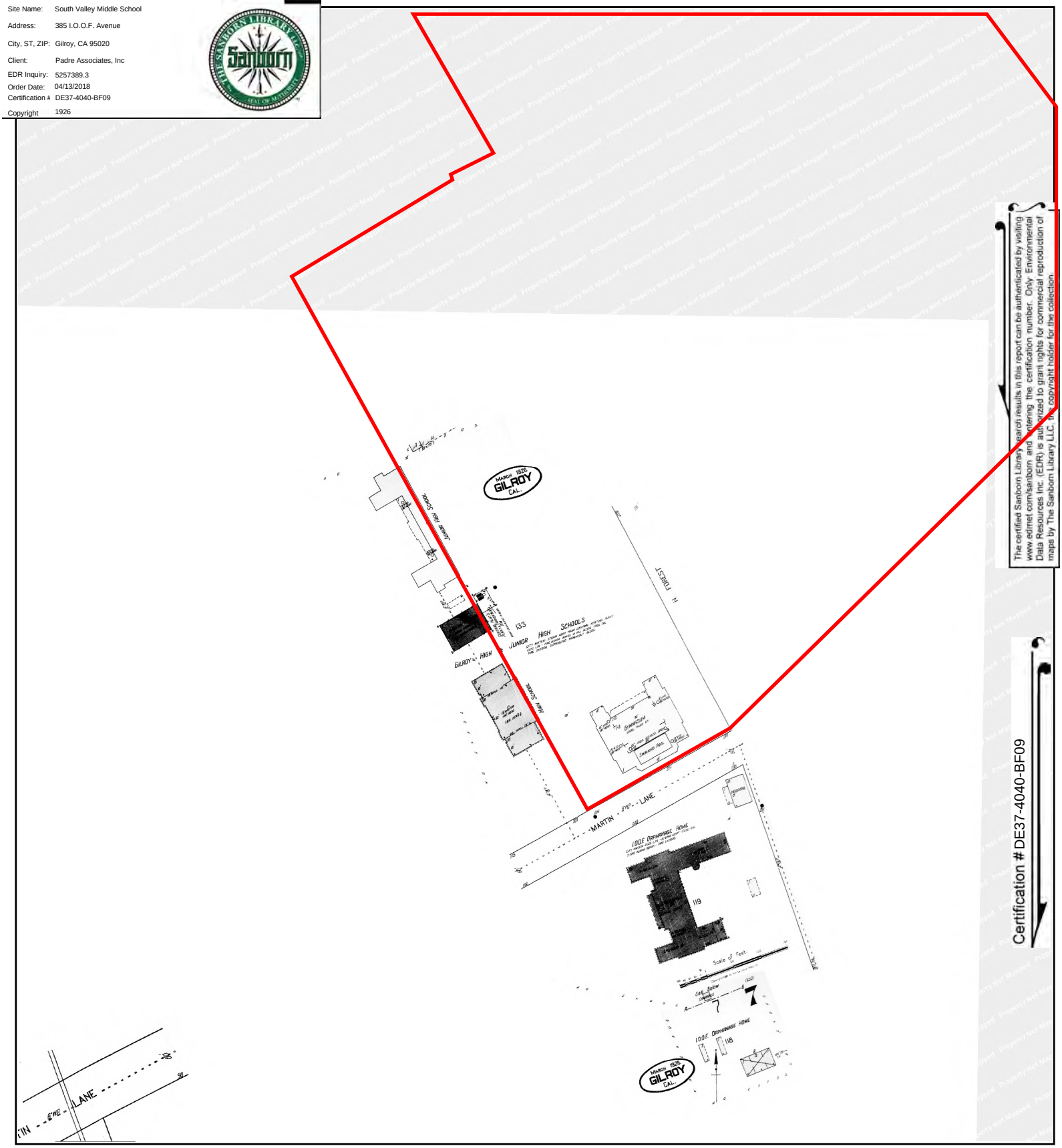
Volume 1, Sheet 7

N

Certified Sanborn® Map

1926

Site Name: South Valley Middle School
Address: 385 I.O.O.F. Avenue
City, ST, ZIP: Gilroy, CA 95020
Client: Padre Associates, Inc
EDR Inquiry: 5257389.3
Order Date: 04/13/2018
Certification # DE37-4040-BF09
Copyright 1926



The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

Certification # DE37-4040-BF09

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Outlined areas indicate map sheets within the collection.

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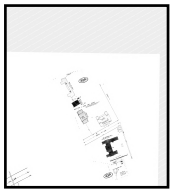

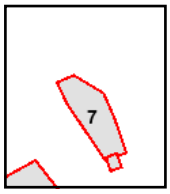

Volume 1, Sheet 7

N

Certified Sanborn® Map

1906

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Address: 385 I.O.O.F. Avenue
City, ST, ZIP: Gilroy, CA 95020
Client: Padre Associates, Inc
EDR Inquiry: 5257389.3
Order Date: 04/13/2018
Certification # DE37-4040-BF09
Copyright 1906

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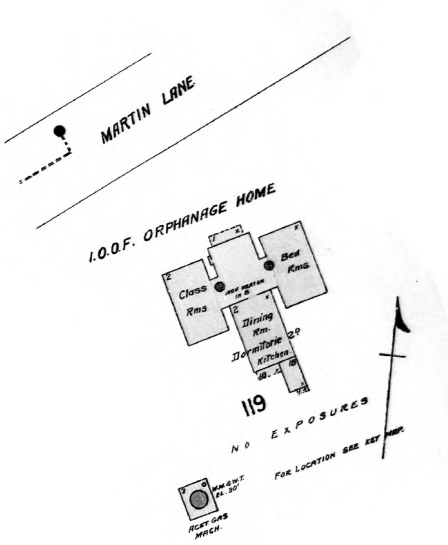
Certification # DE37-4040-BF09



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Outlined areas indicate map sheets within the collection.

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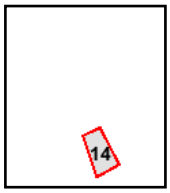


Volume 1, Sheet 14

N

APPENDIX C
SITE PHOTOGRAPHS

Photo No.1 – School entrance from I.O.O.F. Avenue.

Photo No.2 – Looking northeast at Bert Mar Gymnasium.

Photo No.3 – Classroom wings located at east corner of property.

Photo No.4 – Quad area located between Admin and Classrooms.

Inspection Date: 4-5-18

Photo No.5 – Classroom wings showing north facing windows.	Photo No.6 – Classroom wings showing covered walkways.
Photo No.7 – Boiler for former swimming pool.	Photo No.8 – Location of former swimming pool.

Photo No.9 – Pad-mounted transformer near baseball diamond.	Photo No.10 – Baseball field located SW corner of playfield area.
Photo No.11 – Looking northeast across soccer field area.	Photo No.12 – Pad-mounted transformer adjacent to Murray Ave.

Inspection Date: 4-5-18

Photo No.13 – Looking northeast from school site at Murray Ave.	Photo No.14 – Looking southeast from school site at I.O.O.F Ave.
Photo No.15 – Looking northwest from school site at residential area.	Photo No.16 – Maintenance and track area located west of site.

Inspection Date: 4-5-18

APPENDIX D
PROPERTY OWNER QUESTIONNAIRE

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

Project Site Environmental Questionnaire

Padre Associates, Inc. (Padre) on behalf of **Gilroy Unified School District** is requesting the completion of the following questionnaire. The purpose of the questionnaire is to identify past and current use(s) of the Project Site. Please answer the following questions to the best of your knowledge. If you need more space, please use the back of the questionnaire or a separate sheet(s) of paper. If the answer to the question is unknown, write "unknown".

Project Site: South Valley Middle School – 385 I.O.O.F. Avenue, Gilroy, Santa Clara County, California. Refer to the attached site map.

1. Current property owner: Gilroy Unified School District

Contact: James Bombaci Email / Phone No.: james.bombaci@gilroyunified.org

2. Date of Ownership: GUSD was created in 1966 after combining with several smaller districts.

3. Previous property owner/date of ownership: Gilroy High School District beginning in 1939 and unified in 1966 as Gilroy Unified School District.

4. Property Address / Acres: 385 I.O.O.F. Avenue Approx. 20 ac.

5. Assessor's Parcel Number(s): 841-02-049.

6. Current Property Use: South Valley Middle School.

7. Historic Property Use: School Site and Agriculture Gilroy Union High School built approximately 1957. Previously occupied by Union High School.

8. Are there any building structures located onsite and/or historic (removed) building structures? List building use and date of construction: Several classroom wings with covered walkways; multipurpose; gymnasium; locker-rooms; cafeteria; and administrative. South Valley Middle School built in 1958. Historic Union High School buildings removed around the same time.

9. Are there any existing or historic (abandoned) water wells (irrigation/domestic/monitoring) located on site: Existing: No Historic: Unknown.

10. Are there any existing or former septic tanks and/or leach fields located onsite:
Existing: No Historic: Unknown.

11. Are there any existing or former pits, ponds, or lagoons in connection with waste treatment or waste disposal located onsite: No.

12. Are there any existing or former underground or aboveground petroleum storage tanks located onsite: No.

13. Are there (have there every been) any landfills and/or burn pits located onsite: No.

14. List past and present pesticide/herbicide use (List chemicals/yrs): Past: Unknown Present: None.

15. Have there been any chemical spills and/or incidents located onsite: No.

COMPLETED BY:

Signature: _____ Date: 4-11-18.

Print Name: James D. Bombai MPA.

Representing: Gilroy Unified School District

Please return the questionnaire to: Padre Associates, Inc.
555 University Avenue, Suite 110
Sacramento, California 95825
Attn: Alan Klein, (916) 333-5920, Ext. 240

Email or fax the questionnaire to: aklein@padreinc.com
(916) 333-5921 (fax)

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (03/17)

0 300
FEET

SOUTH VALLEY MIDDLE SCHOOL
GILROY UNIFIED SCHOOL DISTRICT
385 I.O.O.F. AVENUE
GILROY, SANTA CLARA COUNTY, CALIFORNIA

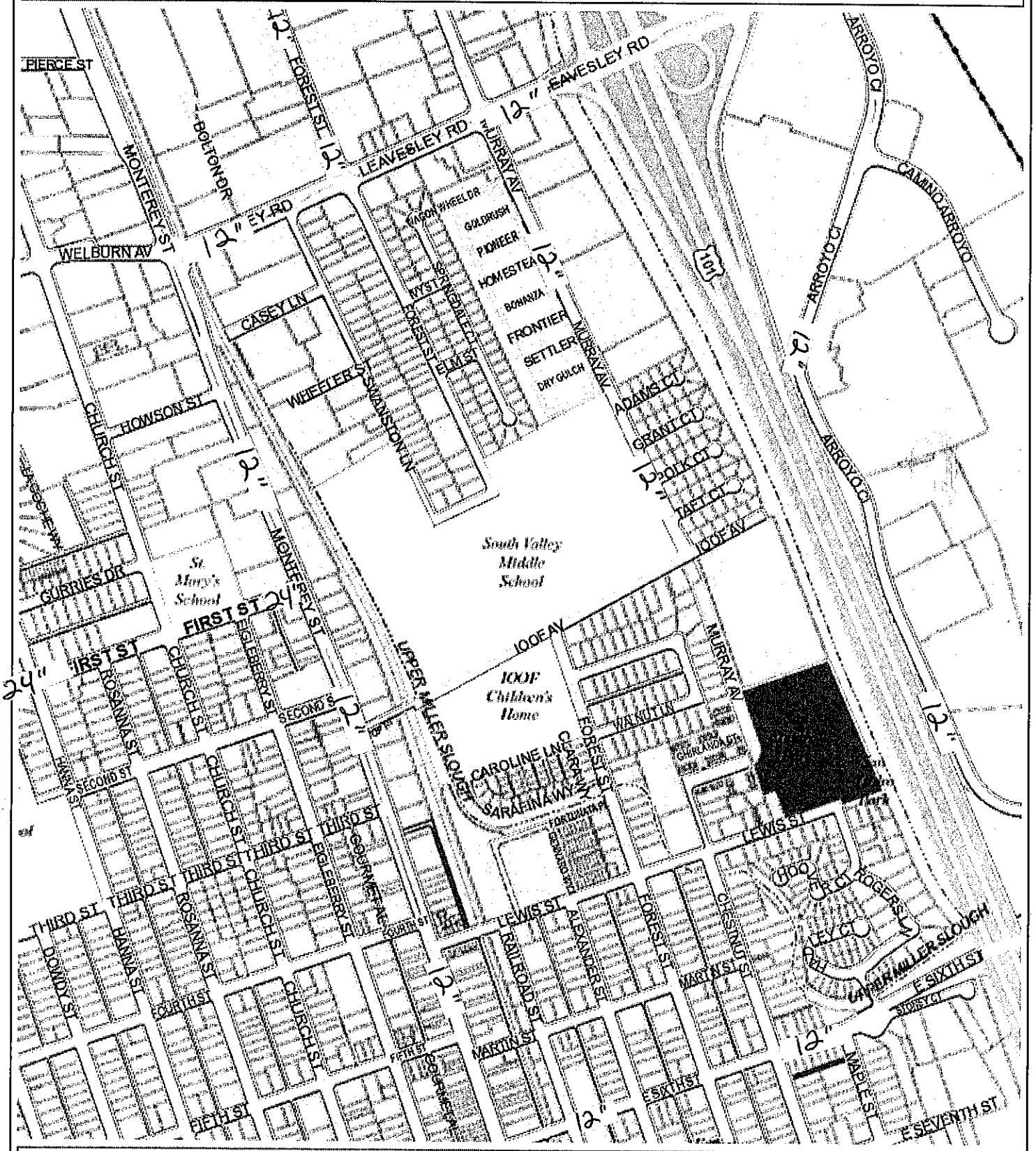
PROJECT NO.	DATE	DR. BY	APP. BY
1801-0731	4/6/18	AC	AJK

PLATE 2

SITE MAP

APPENDIX E
PIPELINE INFORMATION

City of Gilroy



1,333.3 0 666.67 1,333.3 Feet

NAD_1983_StatePlane_California_III_FIPS_0403_Feet

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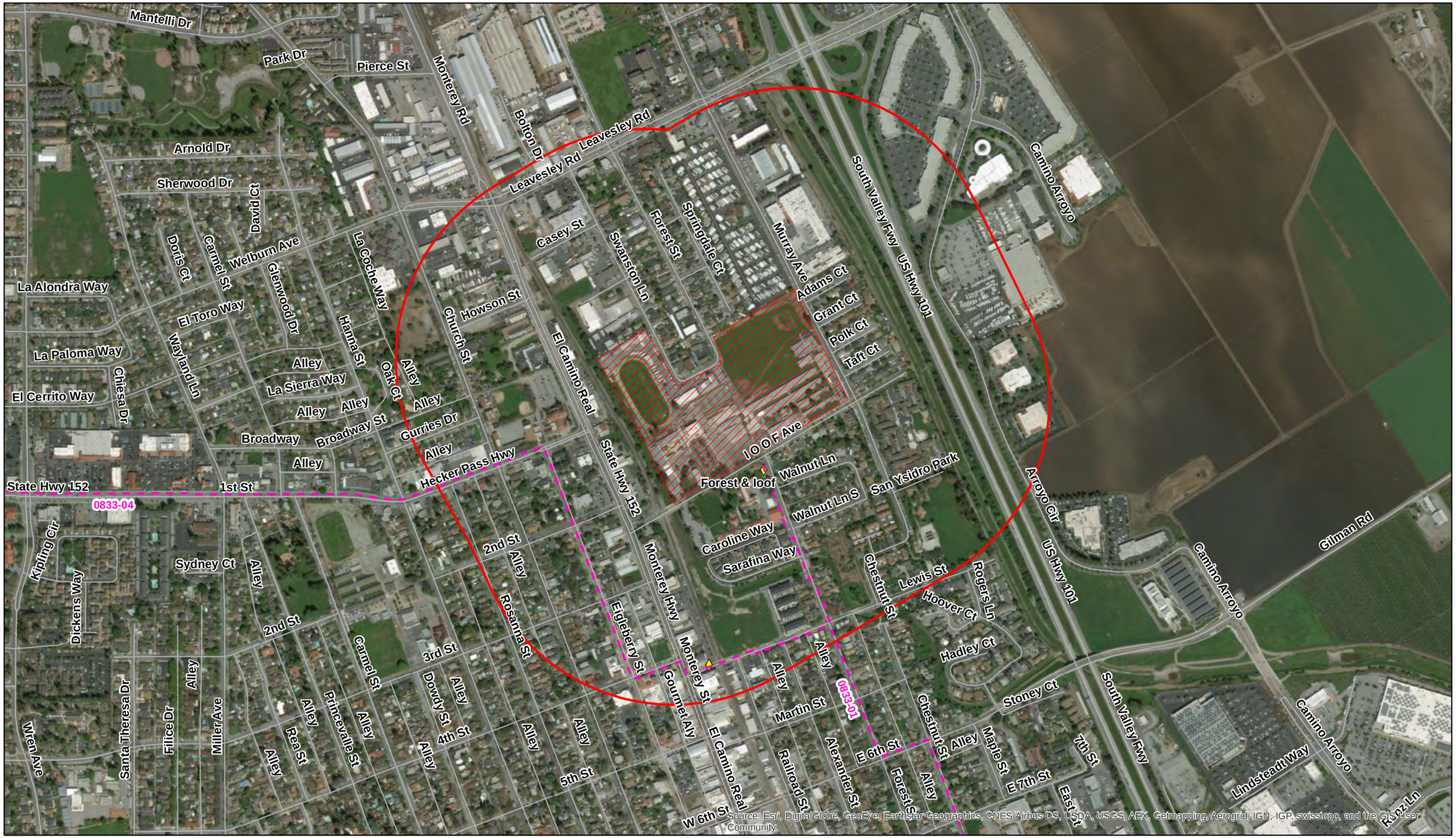
City of Gilroy, GIS Services



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

04/04/2018
PG&E Critical Infrastructure Information
Must Be Held In Confidence
Facilities to be Operated by PG&E Personnel Only
Call 811 Before You Dig

School Site
School Site Buffer
Transmission Main
Gas Station

School Site Map
385 and 277 IOOF Ave. Gilroy, CA 95020

Gas Engineering & Operations
Geographic Information Services

By: S3LG

1 inch = 650 feet (approx.)

0 — 0.3
Miles

N

Questionnaire For Natural Gas Pipeline Risk Analysis Study

Subject Property:	385 and 277 IOOF Ave. Gilroy, CA 95020
1 Pipeline Reference (identification, line no., etc.):	0833-01
1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2 Date of Installation (Year):	1971
3 Maximum Allowable Operating Pressure (psig):	400
3a. Normal Operation Pressure (MOP)	400
4 Diameter (inches):	6.625
5 Construction / Wall Thickness (steel, plastic/inches):	Steel / .188
6 Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7 % of Specified Minimum Yield Strength (MAOP):	23.49
8 Classification (Present) (1,2,3 or 4)	3
9 Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10 History of Incidents:	N/A
11 Pipeline Location Map within 1,500 feet of subject Property:	Attached

1 Pipeline Reference (identification, line no., etc.):	0833-01
1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2 Date of Installation (Year):	1971
3 Maximum Allowable Operating Pressure (psig):	400
3a. Normal Operation Pressure (MOP)	400

4	Diameter (inches):	4.5
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .237
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	10.85
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-01
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	1971
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	4.5
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .237
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	18.08
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A

11 Pipeline Location Map within 1,500 feet of subject Property:	Attached

1 Pipeline Reference (identification, line no., etc.):	0833-01
1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2 Date of Installation (Year):	1971
3 Maximum Allowable Operating Pressure (psig):	400
3a. Normal Operation Pressure (MOP)	400
4 Diameter (inches):	4.5
5 Construction / Wall Thickness (steel, plastic/inches):	Steel / .156
6 Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7 % of Specified Minimum Yield Strength (MAOP):	16.48
8 Classification (Present) (1,2,3 or 4)	3
9 Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10 History of Incidents:	N/A
11 Pipeline Location Map within 1,500 feet of subject Property:	Attached

1 Pipeline Reference (identification, line no., etc.):	0833-01
1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2 Date of Installation (Year):	1971
3 Maximum Allowable Operating Pressure (psig):	400

	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	4.5
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .141
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	15.2
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-01
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	1972
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	4.5
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .141
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	15.2
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E

10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-01
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	1972
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	4.5
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .237
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	18.08
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-01
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	1972
3	Maximum Allowable Operating Pressure (psig):	400

	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .156
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	28.31
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-01
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	1972
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .28
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	22.53
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E

10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-01
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	1999
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .28
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	13.52
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-01
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	1999

3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .28
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	22.53
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-01
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .28
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	22.53
8	Classification (Present) (1,2,3 or 4)	3

9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-01
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .188
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	16.78
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-04
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	1969

3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .188
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	16.78
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-04
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	1969
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .28
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	22.53
8	Classification (Present) (1,2,3 or 4)	3

9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-04
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .28
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	13.52
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-04
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main

2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .188
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	16.78
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-04
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	8.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .25
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	16.43

8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-04
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	8.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .322
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	15.31
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-04
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main

2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	8.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .188
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	17.65
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-04
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	8.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .25
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	22.12

8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	0833-04
	1a. Type: (Distribution, Gathering or Transmission):	Distribution Feeder Main
2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	8.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .25
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	16.43
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	DREG4176

	1a. Type: (Distribution, Gathering or Transmission):	Service
2	Date of Installation (Year):	1975
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	3.5
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .188
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	24.82
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	DREG4176
	1a. Type: (Distribution, Gathering or Transmission):	Service
2	Date of Installation (Year):	1975
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	3.5
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .141
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic

7	% of Specified Minimum Yield Strength (MAOP):	34.48
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	DREG4176
	1a. Type: (Distribution, Gathering or Transmission):	Service
2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	4.5
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .237
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	10.85
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	DREG4176

	1a. Type: (Distribution, Gathering or Transmission):	Service
2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	4.5
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .237
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	18.08
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	DREG4176
	1a. Type: (Distribution, Gathering or Transmission):	Service
2	Date of Installation (Year):	2004
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	4.5
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .156
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic

7	% of Specified Minimum Yield Strength (MAOP):	13.74
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	STUB101162
	1a. Type: (Distribution, Gathering or Transmission):	Stub
2	Date of Installation (Year):	1972
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .156
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	24.27
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	STUB101162
	1a. Type: (Distribution, Gathering or Transmission):	Stub
2	Date of Installation (Year):	1999
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	6.625
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .28
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	16.9
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

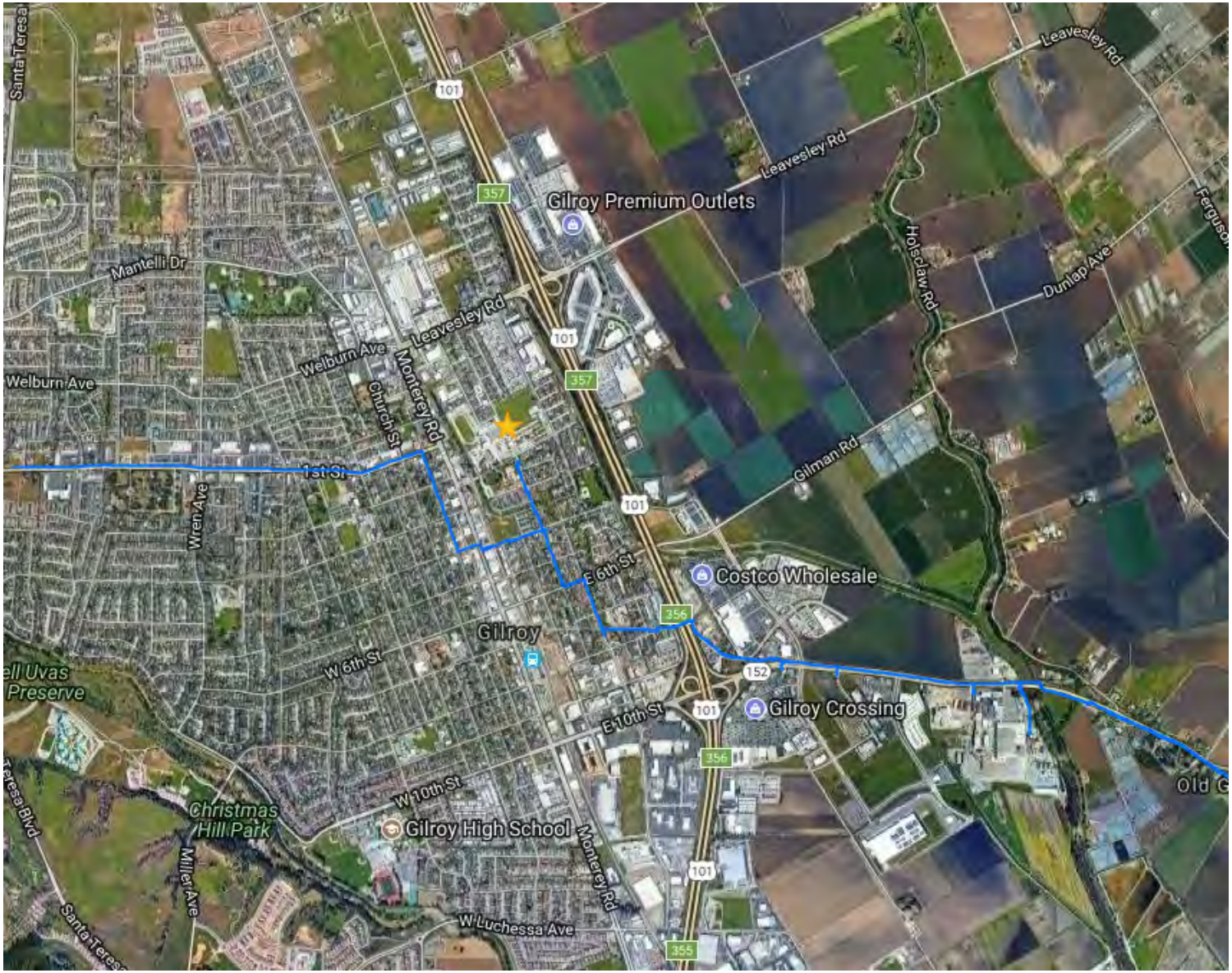
1	Pipeline Reference (identification, line no., etc.):	STUB8105
	1a. Type: (Distribution, Gathering or Transmission):	Stub
2	Date of Installation (Year):	1975
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	1.05
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .113

6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	12.91
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

1	Pipeline Reference (identification, line no., etc.):	STUB8105
	1a. Type: (Distribution, Gathering or Transmission):	Stub
2	Date of Installation (Year):	1975
3	Maximum Allowable Operating Pressure (psig):	400
	3a. Normal Operation Pressure (MOP)	400
4	Diameter (inches):	1.05
5	Construction / Wall Thickness (steel, plastic/inches):	Steel / .113
6	Corrosion Prevention (cathodic protection, tape, etc.):	Cathodic
7	% of Specified Minimum Yield Strength (MAOP):	5.31
8	Classification (Present) (1,2,3 or 4)	3
9	Inspection/Testing Results (method, date, etc.):	Per CPUC 112E
10	History of Incidents:	N/A
11	Pipeline Location Map within 1,500 feet of subject Property:	Attached

QUESTIONNAIRE COMPLETED BY:

NAME:	Steven Liu	SIGNATURE:	s3lg@pge.com
TITLE	Gas Technical Specialist	DATE:	4/4/2018
COMPANY	PG&E		



Legend

- Gas Transmission Pipelines
- Hazardous Liquid Pipelines

500 m
1000 ft

Pipelines depicted on this map represent gas transmission and hazardous liquid lines only. Gas gathering and gas distribution systems are not represented.

This map should never be used as a substitute for contacting a one-call center prior to excavation activities. Please call 811 before any digging occurs.

Questions regarding this map or its contents can be directed to npms@dot.gov.

Projection: Geographic

Datum: NAD83

Map produced by the Public Viewer application at www.npms.phmsa.dot.gov

Date Printed: May 11, 2018

811 Know what's below. Call before you dig.

APPENDIX F
EDR RADIUS MAP REPORT

South Valley Middle School
385 I.O.O.F. Avenue
Gilroy, CA 95020

Inquiry Number: 5223295.15s
March 19, 2018

EDR Summary Radius Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

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Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

385 I.O.O.F. AVENUE
GILROY, CA 95020

COORDINATES

Latitude (North):	37.0155000 - 37˚ 0' 55.80''
Longitude (West):	121.5675000 - 121˚ 34' 3.00''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	627439.1
UTM Y (Meters):	4097347.8
Elevation:	197 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	U.S. Geological Survey

Target Property:	S
Source:	U.S. Geological Survey

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140609, 20140613
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
385 I.O.O.F. AVENUE
GILROY, CA 95020

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	SOUTH VALLEY JUNIOR	385 IOOF AVE	CA HAZNET		TP
A2	SOUTH VALLEY MIDDEL	385 IOOF AVE	CA HAZNET		TP
B3	DISTRICT'S TRANSPORT	8067 SWANSTON	CA LUST, CA HIST CORTESE	Higher	1018, 0.193, WNW
B4	DISTRICT'S TRANSPORT	8067 SWANSTON LN	CA LUST	Higher	1018, 0.193, WNW
B5	GUSD TRANSPORTATION	8067 SWANSTON LN	CA UST	Higher	1018, 0.193, WNW
C6	LOHMAR	8190 MURRAY AVENUE	CA DRYCLEANERS, CA EMI	Higher	1269, 0.240, North
C7	SODEXHO - LOHMAR	8190 MURRAY AVE.	CA UST	Higher	1269, 0.240, North
8	LINDSAY & FRIENDS AN	7888 MONTEREY ST	CA LUST, CA HIST CORTESE	Higher	1351, 0.256, WSW
9	HOWARD TIRE COMPANY	7920 MONTEREY ST	CA LUST, CA HIST CORTESE	Higher	1425, 0.270, West
10	GILROY CANNING	1 1 LEWIS ST	CA LUST	Higher	1479, 0.280, West
11	AMERICAN MUFFLER	7998 MONTEREY ST	CA LUST, CA HAULERS, CA HIST CORTESE	Higher	1594, 0.302, West
12	GILROY HIGH SCHOOL	7810 ARROYO	CA LUST, CA HIST CORTESE	Lower	1612, 0.305, East
D13	GILROY CANNERY DEVEL	111 LEWIS ST	CA SLIC	Lower	1896, 0.359, South
D14	GILROY CANNERY	111 LEWIS STREET	CA SLIC, CA CHMIRS	Lower	1896, 0.359, South
E15	ROTTEN ROBBIE #31	390 LEAVESLEY ST	CA HIST LUST	Higher	2098, 0.397, NNW
E16	ROTTEN ROBBIE #31	390 LEAVESLEY ST.	CA LUST, CA CHMIRS	Higher	2098, 0.397, NNW
E17	ROTTEN ROBBIE #31	390 LEAVESLEY RD	CA LUST, CA HIST UST	Higher	2098, 0.397, NNW
18	GILROY CANNING CO	1 LEWIS ST	CA LUST, CA HIST LUST, CA SWEEPS UST, CA FID UST,...	Higher	2226, 0.422, SSW
19	AMD RECYCLING	150 HOWSON ST	CA SWRCY	Higher	2254, 0.427, WNW
F20	CHEVRON #9-0049	401 LEAVESLEY RD	CA LUST, CA HIST LUST	Higher	2275, 0.431, NNW
F21	CHEVRON STATION #9-0	401 LEAVESLEY	CA LUST, CA SWEEPS UST, CA HIST CORTESE	Higher	2275, 0.431, NNW
22	EMMA PROPERTY	7574 MONTEREY RD	CA LUST, CA HIST LUST, CA HIST CORTESE	Higher	2400, 0.455, SSW
23	FANELLI WHSE	93 LEAVESLEY AVE	CA LUST, CA HIST CORTESE	Higher	2466, 0.467, NW
24	GILROY - MGP - 1	MONTEREY/6TH/OLD GIL	CA RESPONSE, CA ENVIROSTOR, CA HIST Cal-Sites	Higher	2490, 0.472, South
G25	SHELL SERVICE STATIO	8385 MONTEREY RD N	CA LUST, CA HIST CORTESE	Higher	2530, 0.479, WNW
G26	SHELL	8385 MONTEREY RD	CA LUST, CA HIST LUST	Higher	2530, 0.479, WNW
27	PG AND E GAS PLANT G	SW COR 6TH AND RR ST	EDR MGP	Higher	3135, 0.594, South
H28	VERIZON WIRELESS (GI	731 RENZ LANE	CA ENVIROSTOR, CA HIST UST, CA EMI	Lower	4573, 0.866, SE
H29	SOUTH BAY CHEMICAL C	731 RENZ LANE	CA SWEEPS UST, CA HIST UST, CA FID UST, RCRA...	Lower	4573, 0.866, SE
H30	HAZCONTROL INC.	731 RENZ LANE	SEMS-ARCHIVE, CORRACTS, RCRA-TSDF, RCRA-SQG, NY...	Lower	4573, 0.866, SE
31	SOUTH BAY CHEMICAL C	721-731 RENZ LANE	CA ENVIROSTOR	Lower	4819, 0.913, SE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
SOUTH VALLEY JUNIOR 385 IOOF AVE GILROY, CA 95020	CA HAZNET GEPAID: CAC000870192	N/A
SOUTH VALLEY MIDDEL 385 IOOF AVE GILROY, CA 95020	CA HAZNET GEPAID: CAC002564326	N/A

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA CORRACTS facilities list

CORRACTS: A review of the CORRACTS list, as provided by EDR, and dated 12/11/2017 has revealed that there is 1 CORRACTS site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
HAZCONTROL INC.	***731 RENZ LANE***	***SE 1/2 - 1 (0.866 mi.)***	***H30***	***16***

State- and tribal - equivalent NPL

CA RESPONSE: A review of the CA RESPONSE list, as provided by EDR, has revealed that there is 1 CA RESPONSE site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GILROY - MGP - 1	***MONTEREY/6TH/OLD GIL***	***S 1/4 - 1/2 (0.472 mi.)***	***24***	***14***

Database: RESPONSE, Date of Government Version: 10/30/2017

Status: Backlog
Facility Id: 43490064

State- and tribal - equivalent CERCLIS

CA ENVIROSTOR: A review of the CA ENVIROSTOR list, as provided by EDR, and dated 10/30/2017 has revealed that there are 3 CA ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GILROY - MGP - 1 Facility Id: 43490064 Status: Backlog	***MONTEREY/6TH/OLD GIL***	***S 1/4 - 1/2 (0.472 mi.)***	***24***	***14***

Lower Elevation	Address	Direction / Distance	Map ID	Page
VERIZON WIRELESS (GI Facility Id: 80001324 Status: Inactive - Needs Evaluation	***731 RENZ LANE***	***SE 1/2 - 1 (0.866 mi.)***	***H28***	***15***
SOUTH BAY CHEMICAL C Facility Id: 43490062 Status: Refer: RCRA	721-731 RENZ LANE	SE 1/2 - 1 (0.913 mi.)	31	17

State and tribal leaking storage tank lists

CA LUST: A review of the CA LUST list, as provided by EDR, has revealed that there are 16 CA LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DISTRICT'S TRANSPORT Database: LUST, Date of Government Version: 12/11/2017 Status: Completed - Case Closed Global Id: T0608502165	***8067 SWANSTON***	***WNW 1/8 - 1/4 (0.193 mi.)***	***B3***	***8***
DISTRICT'S TRANSPORT Database: LUST REG 3, Date of Government Version: 05/19/2003 Status: Case Closed Global ID: T0608502165	8067 SWANSTON LN	WNW 1/8 - 1/4 (0.193 mi.)	B4	8
LINDSAY & FRIENDS AN Database: LUST REG 3, Date of Government Version: 05/19/2003 Database: LUST, Date of Government Version: 12/11/2017 Status: Completed - Case Closed Status: Case Closed Global Id: T0608502217 Global Id: T10000002021 Global ID: T0608502217	***7888 MONTEREY ST***	***WSW 1/4 - 1/2 (0.256 mi.)***	***8***	***9***
HOWARD TIRE COMPANY Database: LUST REG 3, Date of Government Version: 05/19/2003 Database: LUST, Date of Government Version: 12/11/2017	***7920 MONTEREY ST***	***W 1/4 - 1/2 (0.270 mi.)***	***9***	***9***

Status: Completed - Case Closed
Status: Remedial action (cleanup) Underway
Global Id: T0608500018
Global ID: T0608500018

GILROY CANNING 1 1 LEWIS ST W 1/4 - 1/2 (0.280 mi.) 10 10
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Date Closed: 12/30/2003
SCVWD ID: 11S4E06A01F

AMERICAN MUFFLER 7998 MONTEREY ST W 1/4 - 1/2 (0.302 mi.) 11 10
Database: LUST REG 3, Date of Government Version: 05/19/2003
Database: LUST, Date of Government Version: 12/11/2017
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0608502209
Global ID: T0608502209

ROTTEN ROBBIE #31 390 LEAVESLEY ST. NNW 1/4 - 1/2 (0.397 mi.) E16 11
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST, Date of Government Version: 12/11/2017
Status: Completed - Case Closed
Date Closed: 04/10/2012
Global Id: T0608500048
SCVWD ID: 10S4E31G02F

ROTTEN ROBBIE #31 390 LEAVESLEY RD NNW 1/4 - 1/2 (0.397 mi.) E17 12
Database: LUST REG 3, Date of Government Version: 05/19/2003
Status: Pollution Characterization
Global ID: T0608500048

GILROY CANNING CO 1 LEWIS ST SSW 1/4 - 1/2 (0.422 mi.) 18 12
Database: LUST REG 3, Date of Government Version: 05/19/2003
Database: LUST, Date of Government Version: 12/11/2017
Status: Completed - Case Closed
Status: Pollution Characterization
Global Id: T0608502208
Global ID: T0608502208

CHEVRON #9-0049 401 LEAVESLEY RD NNW 1/4 - 1/2 (0.431 mi.) F20 13
Database: LUST REG 3, Date of Government Version: 05/19/2003
Status: Case Closed
Global ID: T0608502199

CHEVRON STATION #9-0 401 LEAVESLEY NNW 1/4 - 1/2 (0.431 mi.) F21 13
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST, Date of Government Version: 12/11/2017
Status: Completed - Case Closed
Date Closed: 03/15/2000
Global Id: T0608502199
Global Id: T0608582182
SCVWD ID: 10S4E31G01F

EMMA PROPERTY 7574 MONTEREY RD SSW 1/4 - 1/2 (0.455 mi.) 22 14
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 3, Date of Government Version: 05/19/2003
Database: LUST, Date of Government Version: 12/11/2017
Status: Completed - Case Closed
Status: Case Closed
Date Closed: 12/28/1995

Global Id: T0608515872
SCVWD ID: 11S4E06G01F
Global ID: T0608515872

FANELLI WHSE ***93 LEAVESLEY AVE*** ***NW 1/4 - 1/2 (0.467 mi.)*** ***23*** ***14***
Database: LUST REG 3, Date of Government Version: 05/19/2003
Database: LUST, Date of Government Version: 12/11/2017
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0608502210
Global ID: T0608502210

SHELL SERVICE STATIO ***8385 MONTEREY RD N*** ***WNW 1/4 - 1/2 (0.479 mi.)*** ***G25*** ***15***
Database: LUST SANTA CLARA, Date of Government Version: 03/03/2014
Database: LUST REG 3, Date of Government Version: 05/19/2003
Database: LUST, Date of Government Version: 12/11/2017
Status: Completed - Case Closed
Status: Preliminary site assessment workplan submitted
Date Closed: 02/05/2002
Global Id: T0608500007
SCVWD ID: 10S4E31L02F
Global ID: T0608500049

SHELL ***8385 MONTEREY RD*** ***WNW 1/4 - 1/2 (0.479 mi.)*** ***G26*** ***15***
Database: LUST REG 3, Date of Government Version: 05/19/2003
Status: Case Closed
Global ID: T0608500007

Lower Elevation	Address	Direction / Distance	Map ID	Page
GILROY HIGH SCHOOL	***7810 ARROYO***	***E 1/4 - 1/2 (0.305 mi.)***	***12***	***10***

Database: LUST REG 3, Date of Government Version: 05/19/2003
Status: Preliminary site assessment workplan submitted
Global ID: T0608500016

CA SLIC: A review of the CA SLIC list, as provided by EDR, has revealed that there are 2 CA SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
GILROY CANNERY DEVEL	111 LEWIS ST	S 1/4 - 1/2 (0.359 mi.)	D13	11

Database: SLIC, Date of Government Version: 12/11/2017
Facility Status: Open - Assessment & Interim Remedial Action
Global Id: T10000008287

GILROY CANNERY ***111 LEWIS STREET*** ***S 1/4 - 1/2 (0.359 mi.)*** ***D14*** ***11***
Database: SLIC, Date of Government Version: 12/11/2017
Facility Status: Completed - Case Closed
Global Id: T0608549723

EXECUTIVE SUMMARY

CA HIST LUST: A review of the CA HIST LUST list, as provided by EDR, and dated 03/29/2005 has revealed that there are 5 CA HIST LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ROTTEN ROBBIE #31 SCVWD ID: 10S4E31G02	390 LEAVESLEY ST	NNW 1/4 - 1/2 (0.397 mi.)	E15	11
GILROY CANNING CO SCVWD ID: 11S4E06A01	***1 LEWIS ST***	***SSW 1/4 - 1/2 (0.422 mi.)***	***18***	***12***
CHEVRON #9-0049 SCVWD ID: 10S4E31G01	***401 LEAVESLEY RD***	***NNW 1/4 - 1/2 (0.431 mi.)***	***F20***	***13***
EMMA PROPERTY SCVWD ID: 11S4E06G01	***7574 MONTEREY RD***	***SSW 1/4 - 1/2 (0.455 mi.)***	***22***	***14***
SHELL SCVWD ID: 10S4E31L02	***8385 MONTEREY RD***	***WNW 1/4 - 1/2 (0.479 mi.)***	***G26***	***15***

State and tribal registered storage tank lists

CA UST: A review of the CA UST list, as provided by EDR, has revealed that there are 2 CA UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GUSD TRANSPORTATION Database: UST, Date of Government Version: 12/11/2017 Facility Id: 980086	8067 SWANSTON LN	WNW 1/8 - 1/4 (0.193 mi.)	B5	8
SODEXHO - LOHMAR Database: UST, Date of Government Version: 12/11/2017 Facility Id: 43-002-980156	8190 MURRAY AVE.	N 1/8 - 1/4 (0.240 mi.)	C7	9

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

CA SWRCY: A review of the CA SWRCY list, as provided by EDR, and dated 12/11/2017 has revealed that there is 1 CA SWRCY site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMD RECYCLING Cert Id: RC11362	150 HOWSON ST	WNW 1/4 - 1/2 (0.427 mi.)	19	13

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

CA HIST Cal-Sites: A review of the CA HIST Cal-Sites list, as provided by EDR, and dated 08/08/2005 has revealed that there is 1 CA HIST Cal-Sites site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GILROY - MGP - 1	***MONTEREY/6TH/OLD GIL***	***S 1/4 - 1/2 (0.472 mi.)***	***24***	***14***

Other Ascertainable Records

CA DRYCLEANERS: A review of the CA DRYCLEANERS list, as provided by EDR, and dated 12/01/2017 has revealed that there is 1 CA DRYCLEANERS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LOHMAR EPA Id: CAL000352652	***8190 MURRAY AVENUE***	***N 1/8 - 1/4 (0.240 mi.)***	***C6***	***9***

CA HIST CORTESE: A review of the CA HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 10 CA HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DISTRICT'S TRANSPORT Reg Id: 452	***8067 SWANSTON***	***WNW 1/8 - 1/4 (0.193 mi.)***	***B3***	***8***
LINDSAY & FRIENDS AN Reg Id: 996	***7888 MONTEREY ST***	***WSW 1/4 - 1/2 (0.256 mi.)***	***8***	***9***
HOWARD TIRE COMPANY Reg Id: 2337	***7920 MONTEREY ST***	***W 1/4 - 1/2 (0.270 mi.)***	***9***	***9***
AMERICAN MUFFLER Reg Id: 844	***7998 MONTEREY ST***	***W 1/4 - 1/2 (0.302 mi.)***	***11***	***10***
GILROY CANNING CO Reg Id: 841	***1 LEWIS ST***	***SSW 1/4 - 1/2 (0.422 mi.)***	***18***	***12***
CHEVRON STATION #9-0 Reg Id: 687	***401 LEAVESLEY***	***NNW 1/4 - 1/2 (0.431 mi.)***	***F21***	***13***
EMMA PROPERTY Reg Id: 2477	***7574 MONTEREY RD***	***SSW 1/4 - 1/2 (0.455 mi.)***	***22***	***14***
FANELLI WHSE Reg Id: 845	***93 LEAVESLEY AVE***	***NW 1/4 - 1/2 (0.467 mi.)***	***23***	***14***
SHELL SERVICE STATIO	***8385 MONTEREY RD N***	***WNW 1/4 - 1/2 (0.479 mi.)***	***G25***	***15***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GILROY HIGH SCHOOL	***7810 ARROYO***	***E 1/4 - 1/2 (0.305 mi.)***	***12***	***10***

EXECUTIVE SUMMARY

Reg Id: 2217

CA HWP: A review of the CA HWP list, as provided by EDR, and dated 11/20/2017 has revealed that there is 1 CA HWP site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOUTH BAY CHEMICAL C	***731 RENZ LANE***	***SE 1/2 - 1 (0.866 mi.)***	***H29***	***16***
EPA Id: CAD000628149				
Cleanup Status: CLOSED				

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within approximately 1 mile of the target property.

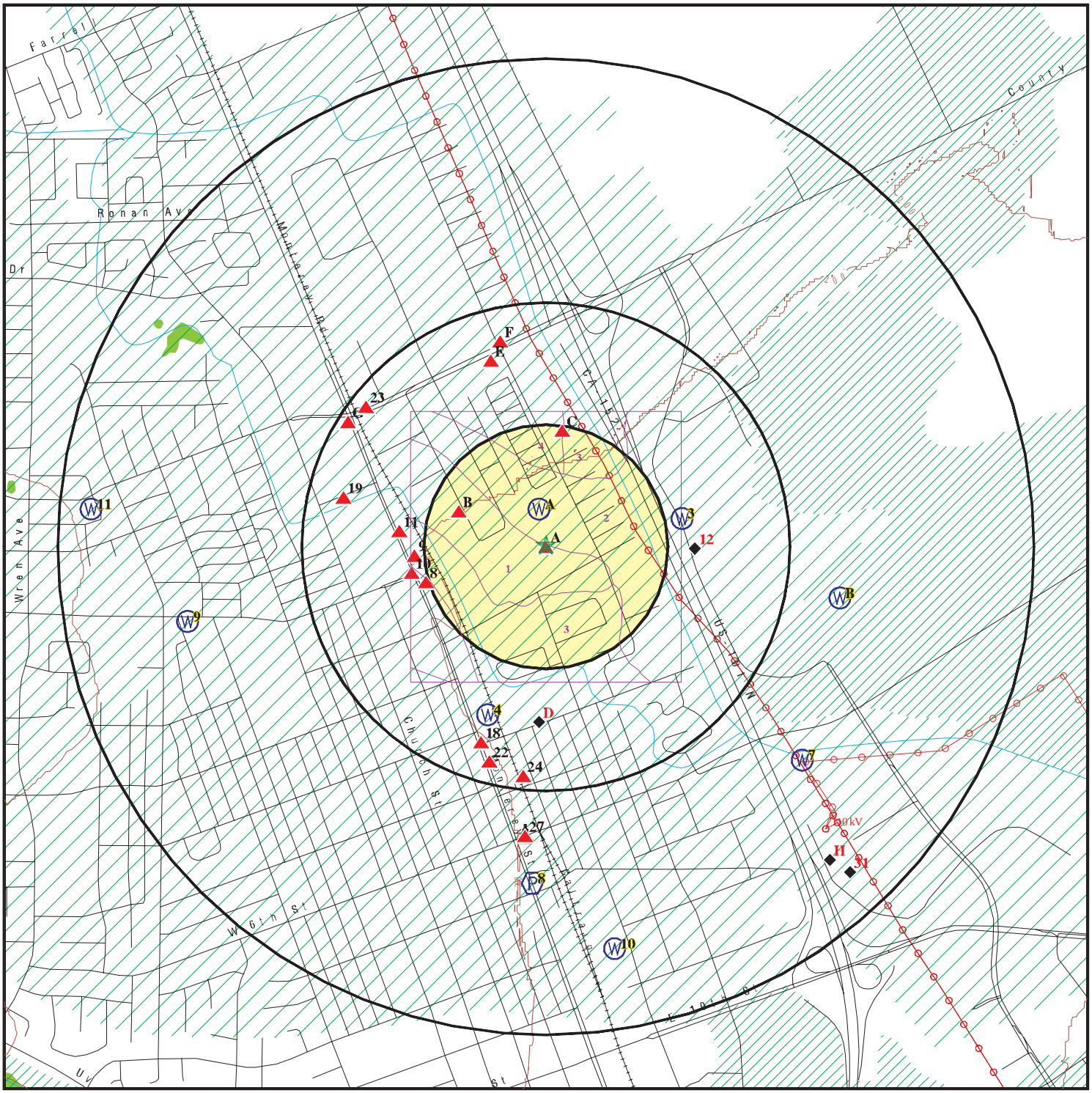
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PG AND E GAS PLANT G	SW COR 6TH AND RR ST	S 1/2 - 1 (0.594 mi.)	27	15

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

OVERVIEW MAP - 5223295.15S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	South Valley Middle School	CLIENT:	Padre Associates, Inc
ADDRESS:	385 I.O.O.F. Avenue Gilroy CA 95020	CONTACT:	Alan Klein
		INQUIRY #:	5223295.15s
LAT/LONG:	37.0155 / 121.5675	DATE:	March 19, 2018 9:08 am

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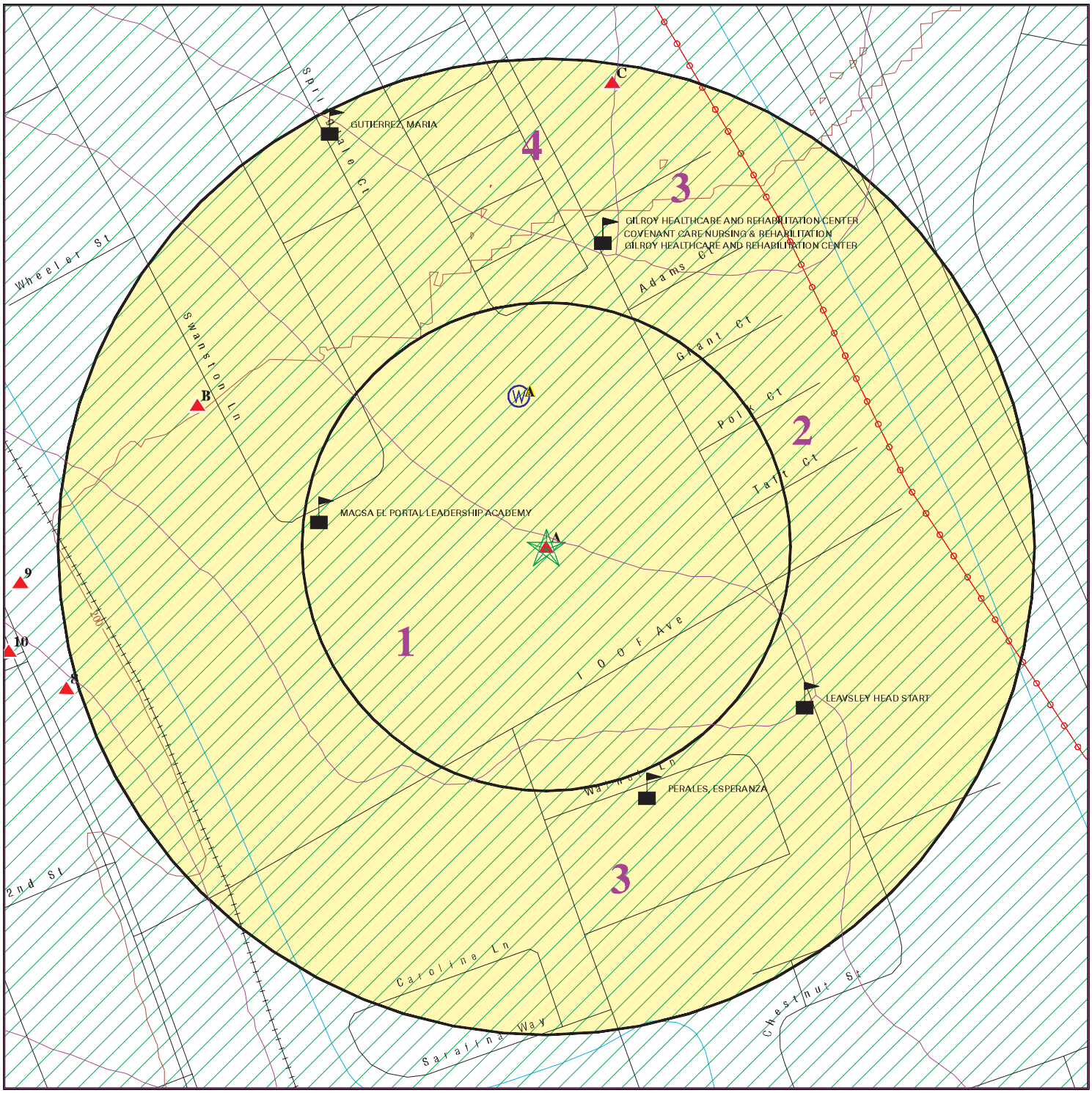
DETAIL MAP - 5223295.15S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: South Valley Middle School	CLIENT: Padre Associates, Inc
ADDRESS: 385 I.O.O.F. Avenue Gilroy CA 95020	CONTACT: Alan Klein INQUIRY #: 5223295.15s
LAT/LONG: 37.0155 / 121.5675	DATE: March 19, 2018 9:09 am

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	1	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
CA RESPONSE	1.000		0	0	1	0	NR	1
State- and tribal - equivalent CERCLIS								
CA ENVIROSTOR	1.000		0	0	1	2	NR	3
State and tribal landfill and/or solid waste disposal site lists								
CA SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
CA LUST	0.500		0	2	14	NR	NR	16

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CA SLIC	0.500		0	0	2	NR	NR	2
CA HIST LUST	0.500		0	0	5	NR	NR	5
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
CA UST	0.250		0	2	NR	NR	NR	2
CA AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CA VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CA BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
CA WMUDS/SWAT	0.500		0	0	0	NR	NR	0
CA SWRCY	0.500		0	0	1	NR	NR	1
CA HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CA HIST Cal-Sites	1.000		0	0	1	0	NR	1
CA SCH	0.250		0	0	NR	NR	NR	0
CA CDL	TP		NR	NR	NR	NR	NR	0
CA Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
CA SWEEPS UST	0.250		0	0	NR	NR	NR	0
CA HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
CA LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
CA DEED	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CA CHMIRS	TP		NR	NR	NR	NR	NR	0
CA LDS	TP		NR	NR	NR	NR	NR	0
CA MCS	TP		NR	NR	NR	NR	NR	0
CA SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CA Cortese	0.500		0	0	0	NR	NR	0
CA CUPA Listings	0.250		0	0	NR	NR	NR	0
CA DRYCLEANERS	0.250		0	1	NR	NR	NR	1
CA EMI	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CA ENF	TP		NR	NR	NR	NR	NR	0
CA Financial Assurance	TP		NR	NR	NR	NR	NR	0
CA HAZNET	TP	2	NR	NR	NR	NR	NR	2
CA ICE	TP		NR	NR	NR	NR	NR	0
CA HIST CORTESE	0.500		0	1	9	NR	NR	10
CA HWP	1.000		0	0	0	1	NR	1
CA HWT	0.250		0	0	NR	NR	NR	0
NY MANIFEST	0.250		0	0	NR	NR	NR	0
CA MINES	0.250		0	0	NR	NR	NR	0
CA MWMP	0.250		0	0	NR	NR	NR	0
CA NPDES	TP		NR	NR	NR	NR	NR	0
CA PEST LIC	TP		NR	NR	NR	NR	NR	0
CA PROC	0.500		0	0	0	NR	NR	0
CA Notify 65	1.000		0	0	0	0	NR	0
CA SAN JOSE HAZMAT	0.250		0	0	NR	NR	NR	0
CA UIC	TP		NR	NR	NR	NR	NR	0
CA WASTEWATER PITS	0.500		0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
CA WIP	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	1	NR	1
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CA RGA LF	TP		NR	NR	NR	NR	NR	0
CA RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		2	0	6	34	5	0	47

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
A1 **Target** **Property** **Actual:** **197 ft.**	**SOUTH VALLEY JUNIOR HIGH/GILROY UNIFIED** **385 IOOF AVE** **GILROY, CA 95020** **Click here for full text details** **CA HAZNET** GEPAID: CAC000870192	**CA HAZNET**	**S112848736** **N/A**
A2 **Target** **Property** **Actual:** **197 ft.**	**SOUTH VALLEY MIDDEL SCHOOL/GILROY UNIFIED** **385 IOOF AVE** **GILROY, CA 95020** **Click here for full text details** **CA HAZNET** GEPAID: CAC002564326	**CA HAZNET**	**S112929295** **N/A**
B3 **WNW** **1/8-1/4** **0.193 mi.** **1018 ft.** **Relative:** **Higher**	**DISTRICT'S TRANSPORTATION** **8067 SWANSTON** **GILROY, CA 95020** **Click here for full text details** **CA LUST** Status: Completed - Case Closed Global Id: T0608502165 **CA HIST CORTESE** Reg Id: 452	**CA LUST** **CA HIST CORTESE**	**S103966084** **N/A**
B4 **WNW** **1/8-1/4** **0.193 mi.** **1018 ft.** **Relative:** **Higher**	**DISTRICT'S TRANSPORTATION YARD** **8067 SWANSTON LN** **GILROY, CA 95020** **Click here for full text details** **CA LUST** Status: Case Closed Global ID: T0608502165	**CA LUST**	**S102428838** **N/A**
B5 **WNW** **1/8-1/4** **0.193 mi.** **1018 ft.** **Relative:** **Higher**	**GUSD TRANSPORTATION DEPARTMENT** **8067 SWANSTON LN** **GILROY, CA 95020** **Click here for full text details** **CA UST** Facility Id: 980086	**CA UST**	**U003785441** **N/A**

C6
North
1/8-1/4
0.240 mi.
1269 ft.

Relative:
Higher

LOHMAR
8190 MURRAY AVENUE
GILROY, CA 95020

CA DRYCLEANERS **S105938493**
CA EMI **N/A**

Click here for full text details

CA DRYCLEANERS
EPA Id: CAL000352652

CA EMI
Facility Id: 16741
Facility Id: 9876
Facility Id: 1650

C7
North
1/8-1/4
0.240 mi.
1269 ft.

Relative:
Higher

SODEXHO - LOHMAR
8190 MURRAY AVE.
GILROY, CA 95020

CA UST **U004049734**
N/A

Click here for full text details

CA UST
Facility Id: 43-002-980156

8
WSW
1/4-1/2
0.256 mi.
1351 ft.

Relative:
Higher

LINDSAY & FRIENDS ANTIQUE
7888 MONTEREY ST
GILROY, CA 95020

CA LUST **S102432663**
CA HIST CORTESE **N/A**

Click here for full text details

CA LUST
Status: Case Closed
Status: Completed - Case Closed
Global Id: T0608502217
Global Id: T10000002021
Global ID: T0608502217

CA HIST CORTESE
Reg Id: 996

9
West
1/4-1/2
0.270 mi.
1425 ft.

Relative:
Higher

HOWARD TIRE COMPANY
7920 MONTEREY ST
GILROY, CA 95020

CA LUST **S101303601**
CA HIST CORTESE **N/A**

Click here for full text details

CA LUST
Status: Remedial action (cleanup) Underway
Status: Completed - Case Closed
Global Id: T0608500018
Global ID: T0608500018

CA HIST CORTESE

HOWARD TIRE COMPANY (Continued) **S101303601**

Reg Id: 2337

10
West
1/4-1/2
0.280 mi.
1479 ft.

Relative:
Higher

GILROY CANNING **CA LUST** **S107995984**
1 1 LEWIS ST **N/A**
GILROY, CA

Click here for full text details

CA LUST
Date Closed: 12/30/2003
SCVWD ID: 11S4E06A01F

11
West
1/4-1/2
0.302 mi.
1594 ft.

Relative:
Higher

AMERICAN MUFFLER **CA LUST** **S100234583**
7998 MONTEREY ST **CA HAULERS** **N/A**
GILROY, CA 95020 **CA HIST CORTESE**

Click here for full text details

CA LUST
Status: Case Closed
Status: Completed - Case Closed
Global Id: T0608502209
Global ID: T0608502209

CA HAULERS
Facility ID: 1804291

CA HIST CORTESE
Reg Id: 844

12
East
1/4-1/2
0.305 mi.
1612 ft.

Relative:
Lower

GILROY HIGH SCHOOL **CA LUST** **S101303594**
7810 ARROYO **CA HIST CORTESE** **N/A**
GILROY, CA 95020

Click here for full text details

CA LUST
Status: Preliminary site assessment workplan submitted
Global ID: T0608500016

CA HIST CORTESE
Reg Id: 2217

D13
South
1/4-1/2
0.359 mi.
1896 ft.

Relative:
Lower

GILROY CANNERY DEVELOPMENT
111 LEWIS ST
GILROY, CA 95037

CA SLIC **S118504752**
N/A

Click here for full text details

CA SLIC
Global Id: T10000008287
Facility Status: Open - Assessment & Interim Remedial Action

Click here to access the California GeoTracker records for this facility

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D14
South
1/4-1/2
0.359 mi.
1896 ft.

Relative:
Lower

GILROY CANNERY
111 LEWIS STREET
GILROY, CA 95020

CA SLIC **S108403120**
CA CHMIRS **N/A**

Click here for full text details

CA SLIC
Global Id: T0608549723
Facility Status: Completed - Case Closed

Click here to access the California GeoTracker records for this facility

CA CHMIRS
OES Incident Number: 5-2858

E15
NNW
1/4-1/2
0.397 mi.
2098 ft.

Relative:
Higher

ROTTEN ROBBIE #31
390 LEAVESLEY ST
GILROY, CA

CA HIST LUST **S106176183**
N/A

Click here for full text details

CA HIST LUST
SCVWD ID: 10S4E31G02

E16
NNW
1/4-1/2
0.397 mi.
2098 ft.

Relative:
Higher

ROTTEN ROBBIE #31
390 LEAVESLEY ST.
GILROY, CA 95020

CA LUST **S100221990**
CA CHMIRS **N/A**

Click here for full text details

CA LUST
Date Closed: 04/10/2012
Status: Completed - Case Closed
Global Id: T0608500048
SCVWD ID: 10S4E31G02F

CA CHMIRS
OES Incident Number: 990410
Date Completed: 19-JUL-88

E17
NNW
1/4-1/2
0.397 mi.
2098 ft.

Relative:
Higher

ROTTEN ROBBIE #31
390 LEAVESLEY RD
GILROY, CA 95020

CA LUST **U001601141**
CA HIST UST **N/A**

Click here for full text details

CA LUST
Status: Pollution Characterization
Global ID: T0608500048

CA HIST UST
Facility Id: 00000031178

18
SSW
1/4-1/2
0.422 mi.
2226 ft.

Relative:
Higher

GILROY CANNING CO
1 LEWIS ST
GILROY, CA 95020

CA LUST **1000597035**
CA HIST LUST **CAD983610296**
CA SWEEPS UST
CA FID UST
RCRA NonGen / NLR
FINDS
ECHO
CA HAZNET
CA HIST CORTESE
CA NPDES

Click here for full text details

CA LUST
Status: Pollution Characterization
Status: Completed - Case Closed
Global Id: T0608502208
Global ID: T0608502208

CA HIST LUST
SCVWD ID: 11S4E06A01

CA SWEEPS UST
Status: A
Tank Status: A
Comp Number: 52240

CA FID UST
Status: A
Facility Id: 43001647

RCRA NonGen / NLR
EPA Id: CAD983610296

FINDS
Registry ID:: 110001196553

ECHO
Registry ID: 110001196553

GILROY CANNING CO (Continued) **1000597035**

CA HAZNET
GEPAID: CAD983610296

CA HIST CORTESE
Reg Id: 841

19
WNW
1/4-1/2
0.427 mi.
2254 ft.

Relative:
Higher

AMD RECYCLING **CA SWRCY** **S107136628**
150 HOWSON ST **N/A**
GILROY, CA 95020

Click here for full text details

CA SWRCY
Cert Id: RC11362

F20
NNW
1/4-1/2
0.431 mi.
2275 ft.

Relative:
Higher

CHEVRON #9-0049 **CA LUST** **S103881460**
401 LEAVESLEY RD **CA HIST LUST** **N/A**
GILROY, CA 95020

Click here for full text details

CA LUST
Status: Case Closed
Global ID: T0608502199

CA HIST LUST
SCVWD ID: 10S4E31G01

F21
NNW
1/4-1/2
0.431 mi.
2275 ft.

Relative:
Higher

CHEVRON STATION #9-0049 **CA LUST** **S100234573**
401 LEAVESLEY **CA SWEEPS UST** **N/A**
GILROY, CA 95020 **CA HIST CORTESE**

Click here for full text details

CA LUST
Date Closed: 03/15/2000
Status: Completed - Case Closed
Global Id: T0608502199
Global Id: T0608582182
SCVWD ID: 10S4E31G01F

CA SWEEPS UST
Status: A
Tank Status: A
Comp Number: 61697

CA HIST CORTESE

CHEVRON STATION #9-0049 (Continued) **S100234573**

Reg Id: 687

22
SSW
1/4-1/2
0.455 mi.
2400 ft.

Relative:
Higher

EMMA PROPERTY
7574 MONTEREY RD
GILROY, CA 95020

CA LUST **S103671520**
CA HIST LUST **N/A**
CA HIST CORTESE

Click here for full text details

CA LUST
Date Closed: 12/28/1995
Status: Case Closed
Status: Completed - Case Closed
Global Id: T0608515872
SCVWD ID: 11S4E06G01F
Global ID: T0608515872

CA HIST LUST
SCVWD ID: 11S4E06G01

CA HIST CORTESE
Reg Id: 2477

23
NW
1/4-1/2
0.467 mi.
2466 ft.

Relative:
Higher

FANELLI WHSE
93 LEAVESLEY AVE
GILROY, CA 95020

CA LUST **S101303598**
CA HIST CORTESE **N/A**

Click here for full text details

CA LUST
Status: Case Closed
Status: Completed - Case Closed
Global Id: T0608502210
Global ID: T0608502210

CA HIST CORTESE
Reg Id: 845

24
South
1/4-1/2
0.472 mi.
2490 ft.

Relative:
Higher

GILROY - MGP - 1
MONTEREY/6TH/OLD GILROY
GILROY, CA 95020

CA RESPONSE **S100204249**
CA ENVIROSTOR **N/A**
CA HIST Cal-Sites

Click here for full text details

CA RESPONSE
Status: Backlog
Facility Id: 43490064

CA ENVIROSTOR

GILROY - MGP - 1 (Continued) **S100204249**

Facility Id: 43490064
Status: Backlog

G25
WNW
1/4-1/2
0.479 mi.
2530 ft.

Relative:
Higher

SHELL SERVICE STATION
8385 MONTEREY RD N
GILROY, CA 95020

CA LUST **S105126321**
CA HIST CORTESE **N/A**

Click here for full text details

CA LUST
Date Closed: 02/05/2002
Status: Preliminary site assessment workplan submitted
Status: Completed - Case Closed
Global Id: T0608500007
SCVWD ID: 10S4E31L02F
Global ID: T0608500049

G26
WNW
1/4-1/2
0.479 mi.
2530 ft.

Relative:
Higher

SHELL
8385 MONTEREY RD
GILROY, CA 95020

CA LUST **S105126410**
CA HIST LUST **N/A**

Click here for full text details

CA LUST
Status: Case Closed
Global ID: T0608500007

CA HIST LUST
SCVWD ID: 10S4E31L02

27
South
1/2-1
0.594 mi.
3135 ft.

Relative:
Higher

PG AND E GAS PLANT GILROY
SW COR 6TH AND RR ST (W OF RR ROW)
GILROY, CA 95020

EDR MGP **1008407683**
N/A

Click here for full text details

H28
SE
1/2-1
0.866 mi.
4573 ft.

Relative:
Lower

VERIZON WIRELESS (GILROY)
731 RENZ LANE
GILROY, CA 95020

CA ENVIROSTOR **S103967448**
CA HIST UST **N/A**
CA EMI

Click here for full text details

CA ENVIROSTOR
Facility Id: 80001324
Status: Inactive - Needs Evaluation

CA EMI

VERIZON WIRELESS (GILROY) (Continued) **S103967448**

Facility Id: 17025

H29
SE
1/2-1
0.866 mi.
4573 ft.

Relative:
Lower

SOUTH BAY CHEMICAL CO, INC
731 RENZ LANE
GILROY, CA 95020

CA SWEEPS UST **1000404997**
CA HIST UST **CAD061215042**
CA FID UST
RCRA NonGen / NLR
CA HWP

Click here for full text details

CA SWEEPS UST
Status: A
Tank Status: A
Comp Number: 6081

CA HIST UST
Facility Id: 00000006081

CA FID UST
Status: A
Facility Id: 43006279

RCRA NonGen / NLR
EPA Id: CAD061215042

CA HWP
EPA Id: CAD000628149
Cleanup Status: CLOSED

H30
SE
1/2-1
0.866 mi.
4573 ft.

Relative:
Lower

HAZCONTROL INC.
731 RENZ LANE
GILROY, CA 95021

SEMS-ARCHIVE **1000180077**
CORRACTS **CAD000628149**
RCRA-TSDF
RCRA-SQG
NY MANIFEST

Click here for full text details

SEMS-ARCHIVE
Site ID: 0900266
EPA Id: CAD000628149

CORRACTS
EPA ID:: CAD000628149

RCRA-TSDF
EPA Id: CAD000628149

RCRA-SQG
EPA Id: CAD000628149

NY MANIFEST

HAZCONTROL INC. (Continued) **1000180077**

EPA ID: CAD000628149

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31 SE 1/2-1 0.913 mi. 4819 ft.	**SOUTH BAY CHEMICAL COMPANY** **721-731 RENZ LANE** **GILROY, CA 95020**	**CA ENVIROSTOR**	**S102860959** **N/A**
Relative: Lower	**Click here for full text details**		

CA ENVIROSTOR
Facility Id: 43490062
Status: Refer: RCRA

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	AST	Aboveground Petroleum Storage Tank Facilities	California Environmental Protection Agency	07/06/2016	07/12/2016	09/19/2016
CA	BROWNFIELDS	Considered Brownfieds Sites Listing	State Water Resources Control Board	12/22/2017	12/26/2017	01/31/2018
CA	CA BOND EXP. PLAN	Bond Expenditure Plan	Department of Health Services	01/01/1989	07/27/1994	08/02/1994
CA	CA FID UST	Facility Inventory Database	California Environmental Protection Agency	10/31/1994	09/05/1995	09/29/1995
CA	CDL	Clandestine Drug Labs	Department of Toxic Substances Control	06/30/2017	08/18/2017	09/21/2017
CA	CHMIRS	California Hazardous Material Incident Report System	Office of Emergency Services	05/09/2017	07/26/2017	09/21/2017
CA	CORTESE	"Cortese" Hazardous Waste & Substances Sites List	CAL EPA/Office of Emergency Information	02/08/2018	02/08/2018	02/08/2018
CA	DEED	Deed Restriction Listing	DTSC and SWRCB	02/08/2018	02/08/2018	02/08/2018
CA	DRYCLEANERS	Cleaner Facilities	Department of Toxic Substance Control	12/01/2017	02/02/2018	03/16/2018
CA	EMI	Emissions Inventory Data	California Air Resources Board	12/31/2015	03/21/2017	08/15/2017
CA	ENF	Enforcement Action Listing	State Water Resoruces Control Board	11/01/2017	11/03/2017	12/07/2017
CA	ENVIROSTOR	EnviroStor Database	Department of Toxic Substances Control	10/30/2017	10/31/2017	12/15/2017
CA	Financial Assurance 1	Financial Assurance Information Listing	Department of Toxic Substances Control	10/23/2017	10/24/2017	12/15/2017
CA	Financial Assurance 2	Financial Assurance Information Listing	California Integrated Waste Management Board	11/14/2017	11/17/2017	12/18/2017
CA	HAULERS	Registered Waste Tire Haulers Listing	Integrated Waste Management Board	05/30/2017	05/31/2017	08/15/2017
CA	HAZNET	Facility and Manifest Data	California Environmental Protection Agency	12/31/2016	07/12/2017	10/17/2017
CA	HIST CAL-SITES	Calsites Database	Department of Toxic Substance Control	08/08/2005	08/03/2006	08/24/2006
CA	HIST CORTESE	Hazardous Waste & Substance Site List	Department of Toxic Substances Control	04/01/2001	01/22/2009	04/08/2009
CA	HIST UST	Hazardous Substance Storage Container Database	State Water Resources Control Board	10/15/1990	01/25/1991	02/12/1991
CA	HWP	EnviroStor Permitted Facilities Listing	Department of Toxic Substances Control	11/20/2017	11/20/2017	12/27/2017
CA	HWT	Registered Hazardous Waste Transporter Database	Department of Toxic Substances Control	01/08/2018	01/09/2018	02/06/2018
CA	ICE	ICE	Department of Toxic Subsances Control	11/20/2017	11/20/2017	12/27/2017
CA	LDS	Land Disposal Sites Listing (GEOTRACKER)	State Water Qualilty Control Board	12/11/2017	12/12/2017	01/11/2018
CA	LIENS	Environmental Liens Listing	Department of Toxic Substances Control	11/30/2017	12/01/2017	01/11/2018
CA	LUST	Leaking Underground Fuel Tank Report (GEOTRACKER)	State Water Resources Control Board	12/11/2017	12/12/2017	01/11/2018
CA	LUST REG 1	Active Toxic Site Investigation	California Regional Water Quality Control Boa	02/01/2001	02/28/2001	03/29/2001
CA	LUST REG 2	Fuel Leak List	California Regional Water Quality Control Boa	09/30/2004	10/20/2004	11/19/2004
CA	LUST REG 3	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	05/19/2003	05/19/2003	06/02/2003
CA	LUST REG 4	Underground Storage Tank Leak List	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	LUST REG 5	Leaking Underground Storage Tank Database	California Regional Water Quality Control Boa	07/01/2008	07/22/2008	07/31/2008
CA	LUST REG 6L	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	09/09/2003	09/10/2003	10/07/2003
CA	LUST REG 6V	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	06/07/2005	06/07/2005	06/29/2005
CA	LUST REG 7	Leaking Underground Storage Tank Case Listing	California Regional Water Quality Control Boa	02/26/2004	02/26/2004	03/24/2004
CA	LUST REG 8	Leaking Underground Storage Tanks	California Regional Water Quality Control Boa	02/14/2005	02/15/2005	03/28/2005
CA	LUST REG 9	Leaking Underground Storage Tank Report	California Regional Water Quality Control Boa	03/01/2001	04/23/2001	05/21/2001
CA	MCS	Military Cleanup Sites Listing (GEOTRACKER)	State Water Resources Control Board	12/11/2017	12/12/2017	01/12/2018
CA	MINES	Mines Site Location Listing	Department of Conservation	12/11/2017	12/12/2017	01/12/2018
CA	MWMP	Medical Waste Management Program Listing	Department of Public Health	11/29/2017	12/05/2017	01/16/2018
CA	NOTIFY 65	Proposition 65 Records	State Water Resources Control Board	12/14/2017	12/15/2017	01/16/2018
CA	NPDES	NPDES Permits Listing	State Water Resources Control Board	02/14/2018	02/14/2018	03/15/2018
CA	PEST LIC	Pesticide Regulation Licenses Listing	Department of Pesticide Regulation	12/04/2017	12/05/2017	01/16/2018
CA	PROC	Certified Processors Database	Department of Conservation	12/11/2017	12/12/2017	01/16/2018
CA	RESPONSE	State Response Sites	Department of Toxic Substances Control	10/30/2017	10/31/2017	12/15/2017
CA	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Resources Recycling and Recover		07/01/2013	01/13/2014
CA	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	State Water Resources Control Board		07/01/2013	12/30/2013
CA	SCH	School Property Evaluation Program	Department of Toxic Substances Control	10/30/2017	10/31/2017	12/15/2017
CA	SLIC	Statewide SLIC Cases (GEOTRACKER)	State Water Resources Control Board	12/11/2017	12/12/2017	01/12/2018

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CA	SLIC REG 1	Active Toxic Site Investigations	California Regional Water Quality Control Boa	04/03/2003	04/07/2003	04/25/2003
CA	SLIC REG 2	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board San Fran	09/30/2004	10/20/2004	11/19/2004
CA	SLIC REG 3	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	05/18/2006	05/18/2006	06/15/2006
CA	SLIC REG 4	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Region Water Quality Control Board Los Angele	11/17/2004	11/18/2004	01/04/2005
CA	SLIC REG 5	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board Central	04/01/2005	04/05/2005	04/21/2005
CA	SLIC REG 6L	SLIC Sites	California Regional Water Quality Control Boa	09/07/2004	09/07/2004	10/12/2004
CA	SLIC REG 6V	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	Regional Water Quality Control Board, Victorv	05/24/2005	05/25/2005	06/16/2005
CA	SLIC REG 7	SLIC List	California Regional Quality Control Board, Co	11/24/2004	11/29/2004	01/04/2005
CA	SLIC REG 8	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Region Water Quality Control Board	04/03/2008	04/03/2008	04/14/2008
CA	SLIC REG 9	Spills, Leaks, Investigation & Cleanup Cost Recovery Listing	California Regional Water Quality Control Boa	09/10/2007	09/11/2007	09/28/2007
CA	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	06/06/2012	01/03/2013	02/22/2013
CA	SWEEPS UST	SWEEPS UST Listing	State Water Resources Control Board	06/01/1994	07/07/2005	08/11/2005
CA	SWF/LF (SWIS)	Solid Waste Information System	Department of Resources Recycling and Recover	11/13/2017	11/14/2017	12/07/2017
CA	SWRCY	Recycler Database	Department of Conservation	12/11/2017	12/12/2017	01/17/2018
CA	TOXIC PITS	Toxic Pits Cleanup Act Sites	State Water Resources Control Board	07/01/1995	08/30/1995	09/26/1995
CA	UIC	UIC Listing	Deaprtment of Conservation	12/11/2017	12/12/2017	01/17/2018
CA	UST	Active UST Facilities	SWRCB	12/11/2017	12/12/2017	01/17/2018
CA	UST MENDOCINO	Mendocino County UST Database	Department of Public Health	11/27/2017	11/29/2017	12/18/2017
CA	VCP	Voluntary Cleanup Program Properties	Department of Toxic Substances Control	10/30/2017	10/31/2017	12/15/2017
CA	WASTEWATER PITS	Oil Wastewater Pits Listing	RWQCB, Central Valley Region	04/15/2015	04/17/2015	06/23/2015
CA	WDS	Waste Discharge System	State Water Resources Control Board	06/19/2007	06/20/2007	06/29/2007
CA	WIP	Well Investigation Program Case List	Los Angeles Water Quality Control Board	07/03/2009	07/21/2009	08/03/2009
CA	WMUDS/SWAT	Waste Management Unit Database	State Water Resources Control Board	04/01/2000	04/10/2000	05/10/2000
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	04/22/2013	03/03/2015	03/09/2015
US	ABANDONED MINES	Abandoned Mines	Department of Interior	09/25/2017	09/26/2017	10/20/2017
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015	02/22/2017	09/28/2017
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/30/2017	11/10/2017	01/12/2018
US	CORRACTS	Corrective Action Report	EPA	12/11/2017	12/26/2017	02/09/2018
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	06/27/2017	11/21/2017	01/12/2018
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	07/31/2012	08/07/2012	09/18/2012
US	Delisted NPL	National Priority List Deletions	EPA	12/11/2017	12/22/2017	01/05/2018
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	01/13/2018	01/19/2018	03/02/2018
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	09/18/2017	09/21/2017	10/13/2017
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	11/07/2016	01/05/2017	04/07/2017
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2017	10/13/2017
US	FINDS	Facility Index System/Facility Registry System	EPA	07/23/2017	09/06/2017	09/15/2017
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	01/31/2015	07/08/2015	10/13/2015
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	11/20/2017	11/20/2017	01/12/2018
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	12/23/2016	12/27/2016	02/17/2017
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	09/21/2017	09/21/2017	10/13/2017
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	04/14/2017	07/27/2017	10/06/2017
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	04/25/2017	11/07/2017	12/08/2017
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/14/2016	01/27/2017	05/05/2017
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	04/26/2017	07/27/2017	10/13/2017
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	04/24/2017	07/27/2017	10/06/2017
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	04/14/2017	07/27/2017	10/06/2017
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	05/01/2017	07/27/2017	10/13/2017
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	04/13/2017	07/27/2017	10/13/2017
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	04/14/2017	07/27/2017	10/06/2017
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	04/25/2017	07/27/2017	10/13/2017
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/14/2016	01/27/2017	05/05/2017
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	04/26/2017	07/27/2017	10/06/2017
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/24/2017	07/27/2017	12/08/2017
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	05/02/2017	07/27/2017	10/06/2017
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	05/01/2017	07/27/2017	10/13/2017
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	04/13/2017	07/27/2017	10/13/2017
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/09/2018	02/06/2018	03/02/2018
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	12/11/2017	12/22/2017	01/12/2018
US	LUCIS	Land Use Control Information System	Department of the Navy	05/22/2017	06/13/2017	09/15/2017
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016
US	NPL	National Priority List	EPA	12/11/2017	12/22/2017	01/05/2018
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	06/01/2017	06/09/2017	10/13/2017
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US	PRP	Potentially Responsible Parties	EPA	10/25/2013	10/17/2014	10/20/2014
US	Proposed NPL	Proposed National Priority List Sites	EPA	12/11/2017	12/22/2017	01/05/2018
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	10/02/2017	10/05/2017	10/13/2017
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	RMP	Risk Management Plans	Environmental Protection Agency	11/02/2017	11/17/2017	12/08/2017
US	ROD	Records Of Decision	EPA	12/11/2017	12/22/2017	01/12/2018
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	12/11/2017	12/22/2017	01/12/2018
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	12/11/2017	12/22/2017	01/12/2018
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	01/19/2018	01/19/2018	02/09/2018
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	01/09/2018	01/24/2018	02/09/2018
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	11/13/2017	11/27/2017	02/09/2018
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	01/11/2018	01/19/2018	03/02/2018
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	01/19/2018	01/24/2018	02/09/2018
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	11/13/2017	11/27/2017	02/09/2018
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	10/29/2017	11/28/2017	01/12/2018
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	09/30/2016	10/31/2017	01/12/2018
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	11/11/2017	11/14/2017	12/18/2017
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2016	04/11/2017	07/27/2017
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	12/31/2017	01/31/2018	03/09/2018
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2016	07/25/2017	09/25/2017
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2013	06/19/2015	07/15/2015
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2016	04/13/2017	07/14/2017
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
CA	Daycare Centers	Sensitive Receptor: Licensed Facilities	Department of Social Services			
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
CA	State Wetlands	Wetland Inventory	Department of Fish & Game			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines		PennWell Corporation			
US	Electric Power Transmission Line Data		PennWell Corporation			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SOUTH VALLEY MIDDLE SCHOOL
385 I.O.O.F. AVENUE
GILROY, CA 95020

TARGET PROPERTY COORDINATES

Latitude (North):	37.0155 - 37˚ 0' 55.80''
Longitude (West):	121.5675 - 121˚ 34' 3.00''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	627439.1
UTM Y (Meters):	4097347.8
Elevation:	197 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640386 GILROY, CA
Version Date:	2012
South Map:	5619808 CHITTENDEN, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

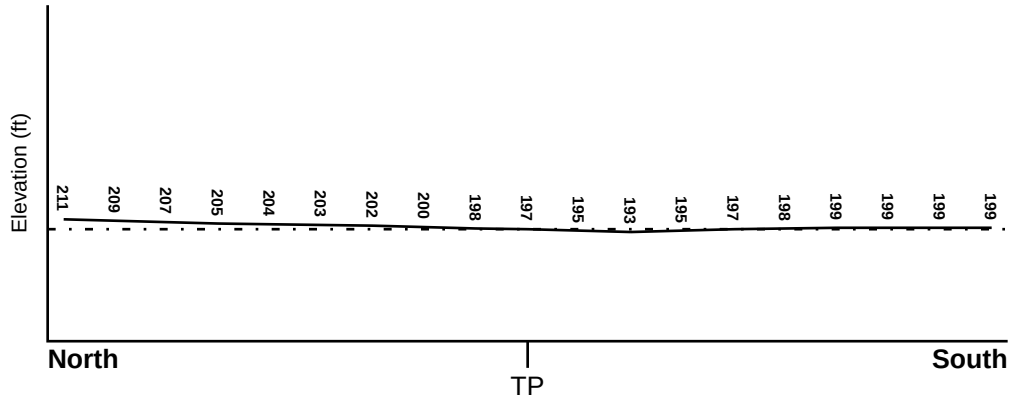
TOPOGRAPHIC INFORMATION

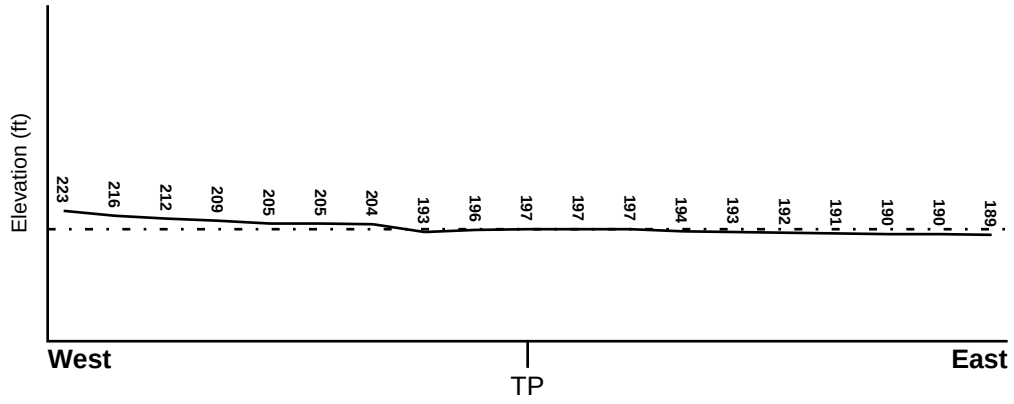
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

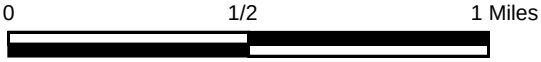
General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 197 ft.



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06085C0639H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06085C0643H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
GILROY	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

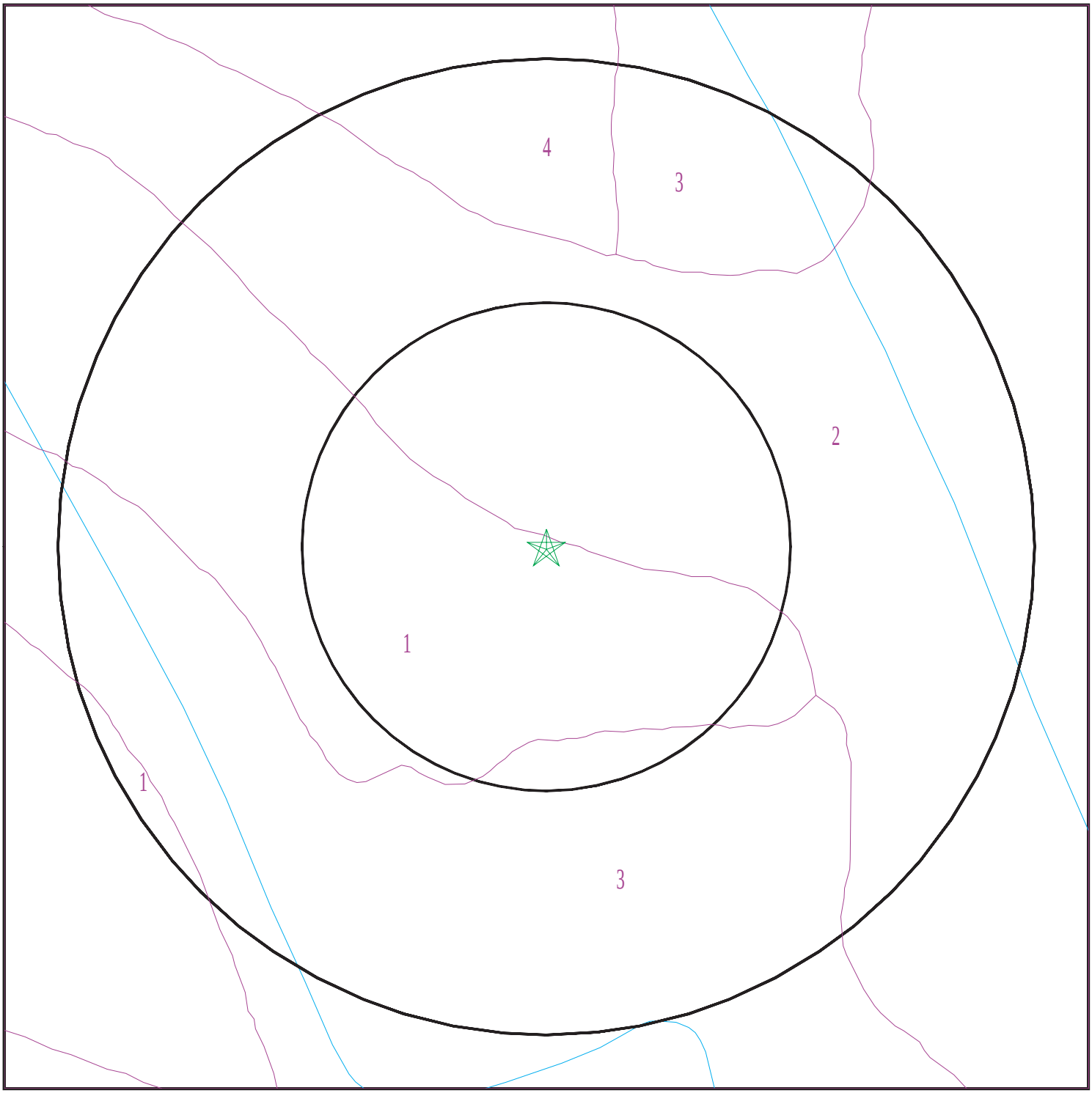
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5223295.15s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	South Valley Middle School	CLIENT:	Padre Associates, Inc
ADDRESS:	385 I.O.O.F. Avenue Gilroy CA 95020	CONTACT:	Alan Klein
		INQUIRY #:	5223295.15s
LAT/LONG:	37.0155 / 121.5675	DATE:	March 19, 2018 9:10 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: PLEASANTON

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	18 inches	44 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
3	44 inches	66 inches	gravelly sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1

Soil Map ID: 2

Soil Component Name: PLEASANTON

Soil Surface Texture: gravelly loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 7.3 Min: 6.1
2	18 inches	44 inches	gravelly clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
3	44 inches	66 inches	gravelly sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1

Soil Map ID: 3

Soil Component Name: ZAMORA

Soil Surface Texture: clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.6
2	14 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.6
3	35 inches	57 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.6
4	57 inches	70 inches	gravelly sandy clay loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 4 Min: 1.4	Max: 7.3 Min: 6.6

Soil Map ID: 4

Soil Component Name: CROPLEY

Soil Surface Texture: clay

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Well drained

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	14 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
2	14 inches	35 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6
3	35 inches	59 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 6.6

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
9	USGS40000180441	1/2 - 1 Mile WSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

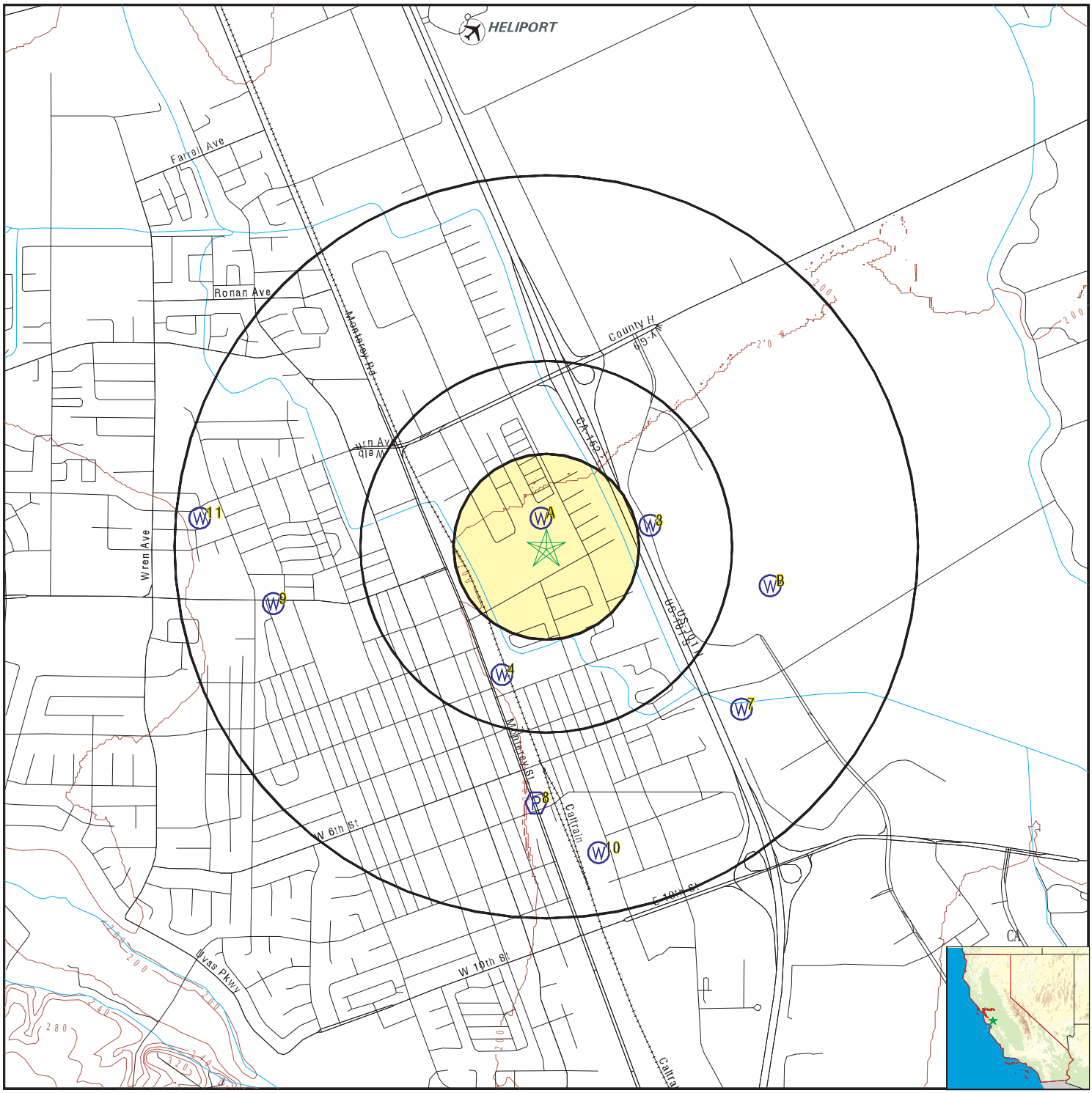
MAP ID	WELL ID	LOCATION FROM TP
8	CA4300581	1/2 - 1 Mile South

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	10608	0 - 1/8 Mile North
A2	10611	0 - 1/8 Mile North
3	10191	1/4 - 1/2 Mile ENE
4	10609	1/4 - 1/2 Mile SSW
B5	10607	1/2 - 1 Mile East
B6	10606	1/2 - 1 Mile East
7	CADW60000004134	1/2 - 1 Mile SE
10	10617	1/2 - 1 Mile South
11	10610	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 5223295.15s



County Boundary
Major Roads
Contour Lines
Earthquake Fault Lines
Airports
Earthquake epicenter, Richter 5 or greater
Water Wells
Public Water Supply Wells
Cluster of Multiple Icons

0 1/4 1/2 1 Miles

Groundwater Flow Direction
GI Indeterminate Groundwater Flow at Location
GV Groundwater Flow Varies at Location
HD Closest Hydrogeological Data
Oil, gas or related wells

N

SITE NAME:	South Valley Middle School	CLIENT:	Padre Associates, Inc
ADDRESS:	385 I.O.O.F. Avenue Gilroy CA 95020	CONTACT:	Alan Klein
		INQUIRY #:	5223295.15s
LAT/LONG:	37.0155 / 121.5675	DATE:	March 19, 2018 9:10 am

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
A1 **North** **0 - 1/8 Mile** **Higher**	Click here for full text details	**CA WELLS**	**10608**
A2 **North** **0 - 1/8 Mile** **Higher**	Click here for full text details	**CA WELLS**	**10611**
3 **ENE** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**CA WELLS**	**10191**
4 **SSW** **1/4 - 1/2 Mile** **Higher**	Click here for full text details	**CA WELLS**	**10609**
B5 **East** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**10607**
B6 **East** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**10606**
7 **SE** **1/2 - 1 Mile** **Lower**	Click here for full text details	**CA WELLS**	**CADW60000004134**
8 **South** **1/2 - 1 Mile** **Higher**	Click here for full text details	**FRDS PWS**	**CA4300581**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
9 **WSW** **1/2 - 1 Mile** **Higher**	**Click here for full text details**	**FED USGS**	**USGS40000180441**
10 **South** **1/2 - 1 Mile** **Higher**	**Click here for full text details**	**CA WELLS**	**10617**
11 **West** **1/2 - 1 Mile** **Higher**	**Click here for full text details**	**CA WELLS**	**10610**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95020	15	1

Federal EPA Radon Zone for SANTA CLARA County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95020

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.200 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW[R] Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX G
QUALIFICATIONS OF ENVIRONMENTAL ASSESSOR

padre associates, inc.
ENGINEERS, GEOLOGISTS & ENVIRONMENTAL SCIENTISTS

Resume

Alan J. Klein, R.E.P.A., C.P.E.S.C., C.E.M.

Senior Environmental Scientist

EDUCATION:

B.A. Environmental Studies, California State University, Sonoma, 1985

Professional Certificate, Hazardous Materials Management, University of California, Santa Barbara, 1992

QUALIFICATIONS:

Registered Environmental Property Assessor (REPA) – National Registry of Environmental Professionals (NREP).
Certified Professional in Erosion and Sediment Control (CPESC) - EnviroCert.
California Qualified SWPPP Developer (QSD) and SWPPP Practitioner (QSP).
Certified Environmental Manager, Nevada
Registered Environmental Assessor II, California (2000-2012)
California Division of Occupational Safety and Health (DOSH), 40-Hour Health and Safety Training, and DOSH, Supervisor's Training
DOSH, Annual Health and Safety Training Refresher Course
American Red Cross, Standard First Aid Certificate
American Red Cross, CPR/AED –Adult Certificate

EXPERIENCE:

Mr. Klein has over 20 years of professional experience performing Phase I environmental site assessments (ESAs); soil and groundwater assessments; soil and groundwater remediation projects; preliminary endangerment assessments (PEAs), removal actions; risk assessments, underground storage tanks (USTs) removal projects; National Pollutant Discharge Elimination System (NPDES) permitting; and Storm Water Pollution Prevention Plans (SWPPPs). His responsibilities include specification of project scope, regulatory agency negotiation and compliance, proposal and contract preparation, field investigation, documentation, and reporting.

Mr. Klein has completed a wide range of environmental projects including the following:

- *California Public Schools* – Performed over 75 Phase I Environmental Assessments (ESAs); Preliminary Endangerment Assessments (PEAs); Removal Actions (RA) and Geological and Environmental Hazards Evaluations for new and expanding school sites as required by California Code of Regulations, Title 5; Assembly Bill 2644 and AB 972. Services include assessment for pesticides from agricultural activities; soil gas surveys; naturally occurring asbestos (NOA); lead in soil from lead based-paint (LBP) and polychlorinated biphenyls (PCBs) from electrical transformers. All work is required and performed under the oversight of the Department of Toxic Substances Control (DTSC) and the California

Department of Education (CDE).

- *Stanislaus County Office of Education, Removal Action, Patterson, CA (2011)* – Padre successfully completed the removal of approximately 511 cubic yards of soil impacted with pesticides from former agricultural use for a proposed school site. Padre prepared the removal action workplan (RAW), which included an excavation plan, dust control plan, stormwater management plan, and site restoration plan. The results of the removal action were documented in the removal action completion report (RACR) prepared by Padre.

- *City of Ceres, North Richland Neighborhood Park, NPDES General Permit (2010)* – Padre prepared the National Pollutant Discharge Elimination System (NPDES) General Permit for storm water discharges for the City of Ceres, North Richland Neighborhood Park and Storm Drainage Outfall Project. The Storm Water Pollution Prevention Plan (SWPPP) was written to comply with the California State Water Resources Control Board (SWRCB) Water Quality Order No. 2009-0009-DWQ, National Pollutant Discharge Elimination System (NPDES), General Permit No. CAS000002 for discharges of storm water runoff associated with construction activity. The General Permit covers the development and implementation of a SWPPP, which specifies best management practices (BMPs) that will minimize construction pollutants from contacting storm water and inhibit sediment from moving offsite into receiving waters of the State. The General Permit also covers the reduction of non-storm water discharges to storm sewer systems and other waters of the nation. Specifically, this SWPPP addresses construction activities associated with construction of a neighborhood park and storm drainage outfall project, located at the southwest intersection of River Road and Peter John Way, Ceres, Stanislaus County, California.

- *Former Caesars Tahoe Hotel and Casino, Stateline, Nevada (2003)* – Mr. Klein is the Certified Environmental Manager (CEM) for this facility, which is regulated under the Nevada Department Environmental Protection (NDEP). Padre prepared and implemented the erosion control plan associated with the Tahoe Regional Planning Agency (TRPA) underground tank removal permit, for the removal of a 10,000-gallon underground storage tank (UST) at the Project Site. The erosion control plan included construction/grading conditions and temporary BMPs. Pre-construction activities were inspected and approved by the TRPA.

- Sportsmen Yacht Club, Dredging Operations, Antioch, CA (2005) – Padre prepared the Monitoring and Reporting Program (MRP) No. R5-2003-0121 for the Sportsmen Yacht Club, located at 3301 Wilbur

Avenue, Antioch, Contra Costa County, California (Project Site). The Sportsmen Yacht Club Marina is situated west of the Antioch Bridge on the south shore of the San Joaquin River. The marina is located within the Sacramento-San Joaquin Delta, Hydrologic Unit No. 544.0. The dredging operations consisted of the use of a suction dredge that discharged dredged material to a detention basin located approximately 180 feet south of the marina. The dredger operated at an approximate pumping rate of 2,000-gallons per minute (gpm). The detention basin has a calculated holding capacity of approximately 9,780 cubic-yards or 1,980,450-gallons. The dredged material consisted of approximately 25 to 40% solids. Dredge operation monitoring consisted of the monitoring of harbor water at two locations identified as Stations R-1 and R-2. Station R-1 was located within 300 feet up-current from the dredge operation, with up-current representing a location between the dredge suction head and the entrance to the harbor. Station R-2 was located approximately 300 feet down-current of the dredge suction head, with down-current representing a location between the dredge suction head and the end of the harbor (boat ramp). The monitoring of harbor water at the locations of Station R-1 and R-2 consisted of the use of hand held meters to measure the following parameters: pH (pH units 0-14); temperature (°C); dissolved oxygen (mg/l); and turbidity (NTU).

- *Spanish Mine, Upper Spanish Mine, Nevada County, California (2002)*. Assisted with an ecological risk assessment and National Pollutant Discharge Elimination System (NPDES) permit for an inactive mine site. The mine site consisted of approximately 4,000-acres of patented and unpatented mining claims. Gold was first discovered at the site in 1883 and was mined sporadically until the war shut the operations down in 1939. An open pit barite mine was operated from the 1950's until late 1988. Between 1984 and 1990, lease options were given on the property for gold exploration. Ecological risks to aquatic biota downstream of the mine site were evaluated. The assessment consisted of six stream site locations chosen to be scientifically defendable for determining injury to aquatic resources. The sampling consisted of a comprehensive evaluation of potential metals of concern in surface waters, sediments, and benthic macro invertebrates. For the submittal of the NPDES permit application, a file search with the United States Geologic Survey (U.S.G.S.), and the California Division of Mines to review information relative to known mine workings and current conditions.

- *North Valley Plaza Associates, Soil/Groundwater Assessment and Remediation, Chico, California*. Project manager for the assessment and remediation of PCE and its breakdown products discharged to the subsurface by a former dry cleaning facility in Chico, CA. The Department

of Toxic Substance Control identified the presence of chlorinated hydrocarbons in a nearby municipal drinking water supply well. Developed RI/FS workplan, Quality Assurance Project Plan (QAPP) and Public Participation Plan (PPP). Performed extensive subsurface investigation to define the lateral and vertical extent of chlorinated hydrocarbons in soil and groundwater. The subsurface investigation included conducting a soil vapor survey, sewer line survey, soil sampling, depth-discrete groundwater sampling; and installation of multiple groundwater monitoring wells in both shallow and deep groundwater zones. Design, installation, and operation of a soil vapor extraction system.

- *United Airlines, UST Removal and Remediation, Port of Oakland, California*. Environmental project manager providing permitting, remedial construction oversight and soil and groundwater sampling during the removal of two 10K underground storage tanks (USTs)(diesel/gasoline) and the abandonment inplace of two 8.5K (aero-foam) USTs. Remediation activities included overexcavation of 750-cubic yards of petroleum impacted soil and 12,000 gallons of groundwater was pumped from the excavation pit. Waste soil and groundwater were characterized and disposed of at the proper recycling/disposal facility.

- *Natural Gas Field, Phase I & II Environmental Site Assessment, Orland, California*. Project Manager. Retained by the owners of a 6,000 acre ranch to investigate the environmental condition of their property, regarding the production of natural gas by several individual gas companies. Identified numerous environmental concerns associated with the operating practices of these companies. Environmental concerns included: unauthorized releases of waste oil and production water to the subsurface, noxious odors emitted from the operation of glycol dehydrator, user permit violations, and deserted wells. Provided oversight of investigation and remediation of contaminated soil from leaking gas compressors and wastewater holding tanks.

PROFESSIONAL AFFILIATIONS:

Association of Environmental & Engineering Geologists
California Storm Water Quality Association
International Erosion Control Association
Coalition for Adequate School Housing
Groundwater Resources Association of California

Resume

Alan Churchill, P.G.

Project Geologist

EDUCATION: B.S. Geology, University of California, Davis, March 1996
Minor Degree in Hydrologic Science

QUALIFICATIONS:
Professional Geologist, California
California Division of Occupational Safety and Health (DOSH), 40-Hour Health and Safety Training
DOSH, Supervisor's Training
DOSH, Annual Health and Safety Training Refresher Course
CPR/AED, Standard First Aid

EXPERIENCE: Mr. Churchill has 19 years of professional experience performing phase I environmental site assessments (ESAs), soil and groundwater investigation/remediation projects, underground storage tanks (USTs) removal projects, well abandonments, and soil/groundwater modeling (environmental fate transport) His responsibilities include specification of project scope, regulatory agency negotiation and compliance, proposal and workplan preparation, field investigation, documentation, risk assessments, and reporting.

Mr. Churchill has completed a wide range of projects including the following:

- ***California Public Schools*** **–** Performed over 25 Phase I Environmental Assessments and Preliminary Endangerment Assessments (PEAs) for new school sites as required by California Code of Regulations, Title 5; Assembly Bill 2644 and AB 972. Clients include: Burton Unified School District, Farmersville Unified School District, Golden Valley Unified School District, Fremont Unified School District, Grant Union High School District, Hanford Elementary School District, Hughson Unified School District, Kings County Office of Education, Liberty Union High School District, Natomas Unified School District, Oakdale Joint Unified School District, Rio Linda Union School District, Riverbank Unified School District, Santa Rita Union School District, Sierra-Plumas Joint Unified School District, Vacaville Unified School District, Ventura Unified School District, West Fresno School District, and Western Placer Unified School District. Work involves preparation of Phase I ESAs, negotiations with the Department of Toxic Substances Control (DTSC), preparation of PEA workplans, field work, sampling and analysis, data evaluation, preparation of PEA risk assessments, remedial actions, and preparation of pipeline (natural gas, liquid gas) and railroad risk assessments.

- **Altamont Landfill Resource and Recovery Facility, Alameda County, CA.** – Conducted Phase I environmental site assessment (ESA) of approximately 972 acres of land located northeast of the City of Livermore, Alameda County, California. The Project Site surrounds and borders the active Altamont Landfill Resource and Recovery Facility (ALRRF). As part of the mitigation for biological impacts associated with construction of the proposed Fill Area 2 at the ALRRF, WMAC is providing the Project Site in a conservation easement that will be held by the California Department of Fish and Game. Prior to acceptance of the conservation easement by DFG, a Phase I ESA was required. The objective of the ESA was to determine whether current or previous land use at or adjacent to the Project Site may have involved, or resulted in the use, storage, disposal, treatment, and/or release of hazardous substances to the environment. The ESA was completed consistent with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments (E-1527-05).

- **Mitigation Areas Related to the Potrero Hills Landfill Proposed Phase II Expansion, Solano County, CA.** – Conducted Phase I environmental site assessment (ESA) of approximately 965 acres of land located southeast of Suisun City, Solano County, California. The Project Site surrounds the active Potrero Hills Class III Landfill with a portion of the Project Site bordering the closed Solano Garbage Company Landfill. As part of the mitigation for biological impacts associated with construction of the proposed Phase II Expansion, the client was providing the Project Site with a conservation easement that will be held by a non-profit organization Prior to acceptance of the conservation easement by DFG, a Phase I ESA was required. The objective of the ESA was to determine whether current or previous land use at or adjacent to the Project Site may have involved, or resulted in the use, storage, disposal, treatment, and/or release of hazardous substances to the environment. The ESA was completed consistent with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments (E-1527-05).

- **Concord Nissan Automobile Dealership, Phase I Environmental Site Assessment.** Padre conducted a Phase I environmental site assessment (ESA) for the automobile dealership located in Concord, Contra Costa County, California The property had been utilized as an automobile dealership since 1973. The

objective of the subject ESA was to determine whether current or previous land use at or adjacent to the Project Site may have involved, or resulted in the use, storage, disposal, treatment, and/or release of hazardous substances to the environment. The ESA was completed consistent with the American Society for Testing and Materials (ASTM) Standard Practice for Environmental Site Assessments (E-1527-00).

- ***Stanislaus County Office of Education, Removal Action, Ceres, CA*** – Padre successfully completed the removal of approximately 1,500 cubic yards of soil impacted with pesticides and arsenic from former agricultural use for a proposed school site. Padre prepared the removal action workplan (RAW), which included an excavation plan, dust control plan, stormwater management plan, and site restoration plan. Additionally, Pader directed and oversaw the removal contractor during excavation and offhaul activities. The results of the removal action were documented in the removal action completion report (RACR) prepared by Padre.

- ***UST Removal Program, Various Sites, California***. Conducted investigation of leaking underground tank site for various retail gasoline facilities. Responsibilities included direction of contractor's excavation and sampling of soil borings to determine the limits of contamination and excavation, and installation/abandonment of numerous groundwater monitoring wells to evaluate groundwater quality. Activities required preparation and submittal of local permits, review of local and state data, i.e. location of groundwater wells, and preparation of site closure reports. Environmental assessment included RBCA Tier 2 evaluation for impacts to huma health and the one-dimensional finite difference VLEACH vadose zone modeling for potential impacts from soil to groundwater.

- **P&F Distributors, Brisbane, San Mateo County, California; Soil and Groundwater Assessment –** Conducted soil and groundwater assessment related to former gasoline underground storage tanks (USTs). Prior assessment indicated the presence of petroleum hydrocarbon containing soil and groundwater beneath the Site. Responsibilties included preparation of a technical work plan for the installation, development, and quarterly monitoring of three groundwater monitoring wells. As the Site is situated on a former landfill, the technical work plan included a Health and Safety Plan with an emphasis on monitoring for methane, in addition to petroleum hydrocarbons. Performed quarterly groundwater monitoring and prepared/submitted reports to the SMCHSA. All data related to the wells was submitted electronically to the GeoTracker website in

compliance with AB2886 requirements. Received "No Further Action" designation from the SMCHSA.

- **Kaiser Permanente Hospital facility, Hayward, California, Phase II ESA -** Conducted a Phase II ESA at the Kaiser Permanente Hospital facility located Hayward, Alameda County, California. Performed soil sampling activities under the supervision of the City of Hayward Fire Department (CHFD) as part of diesel fuel product piping upgrade activities. Soil sampling activities were performed to assess soil conditions for the presence of diesel fuel at locations beneath diesel fuel product piping that connects the existing 10,000-gallon capacity diesel fuel underground storage tank (UST) to the backup emergency boilers and generators. The referenced diesel fuel product piping failed integrity testing, which required the replacement of approximately 50 feet of primary, secondary, and tertiary flexible product piping. Prior to replacement of the product piping, soil samples were collected for chemical analyses under the direction of CHFD.

- ***Boeing Corporation, Sacramento County, California*.** Oversaw the installation of soil borings and multiple-completion monitoring wells using various drilling techniques, including air rotary with casing hammer (ARCH), mud rotary, and the sonic drilling method. Conducted groundwater pumping test, including installation and operation of pressure transducers, on three separate hydrogeologic zones to assess potential migration of contaminants towards water supply wells. Performed vadose zone modeling using VLEACH for the compounds trichloroethylene

- ***Kemwater North America, Contra Costa County, California***. Conducted a site investigation at chlor-alkali plant in Antioch, California. Complexities of project included characterizing an aquifer consisting of four separate hydrogeologic zones, determining specific sources of contamination at a 40-acre industrial site, and developing cost effective remediation strategies for metals, ammonia and VOC's. Sampling included hollow stem auger, hydropunch and cone penetrometer drilling techniques. Other studies included a groundwater pumping test to design a groundwater extraction system and evaluating the influence of the adjacent tidal estuary on the operation of the extraction system, and pilot scale leaching studies to evaluate the need for remediation.

- ***West Yost Associates/City of Tracy, San Joaquin County, California.*** Field geologist for drilling, installation, and development of 850-foot Aquifer Storage & Recovery (ASR) Well. Duties included maintaining a detailed drilling time log, drilling fluid log, and drill cuttings log during advancement of pilot hole utilizing the reverse rotary drilling technique. Oversaw advancement of ream hole and well construction activities ensuring proper installation of well screens and casing, gravel pack, and sanitary seal. Oversaw well development activities utilizing swabbing/airlift and pumping while monitoring discharge water for compliance with a NPDES permit issued by the Regional Water Quality Control Board. Additionally, coordinated with City for disposal of drilling fluids and cuttings and oversaw that drilling crew maintained clean working area.

- ***Sears Roebuck & Company, Environmental Construction, Chico, Butte County, California***. Oversaw excavation and disposal of petroleum hydrocarbon contaminated soil, removal of two septic systems, and abandonment of former 300-foot irrigation well during construction activities for future retail facility. Activities included obtaining county permits, construction management of subcontractor crew, communication with landfill for disposal requirements, and preparation and submittal of well completion report to Department of Water Resources.

PROFESSIONAL AFFILIATIONS: Groundwater Resources Association of California

APPENDIX C

NATIVE AMERICAN HERITAGE COMMISSION CORRESPONDENCE

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

April 23, 2019

Paul Nadeau
Gilroy Unified School District

VIA Email to: paul.nadeau@gilroyunified.org
Cc: kayla@schoolsitesolutions.com

RE: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, **South Valley Middle School Modernization Project**, City of Gilroy; Santa Cruz USGS Quadrangle, Santa Clara County

Dear Mr. Nadeau:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

> Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

   - A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;

   - Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;

   - Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and

   - If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

   - Any report that may contain site forms, site significance, and suggested mitigation measures.

     All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.

3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was negative.

4. Any ethnographic studies conducted for any area including all or part of the APE; and

5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton

Gayle Totton, B.S., M.A., Ph. D
Associate Governmental Program Analyst

Attachment

GILROY UNIFIED SCHOOL DISTRICT
FACILITIES
7810 Arroyo Circle, Gilroy, California 95020
Tel. 669-205-4000 fax: 408-847-4717
www.gilroyunified.org

SUPERINTENDENT
Dr. Deborah A. Flores, Ph.D.

BOARD OF EDUCATION
Enrique Diaz ◈ B.C. Doyle ◈ Tuyen Fiack ◈ Mark Good
Anisha Munshi◈ James E. Pace ◈ Linda Piceno

April 23, 2019

Ann Marie Sayers
P.O. Box 28
Hollister, CA 95024

Dear Mrs. Sayers, Chairperson

The Gilroy Unified School District (GUSD) has received notice from the Native American Heritage Commission (NAHC) that the Indian Canyon Mutsun Band of Costanoan has requested consultation on projects located within the Nation's Geographic Area of Traditional and Cultural Affiliation in Santa Clara County, and is hereby providing formal notice of a proposed project.

The GUSD plans to modernize the existing South Valley Middle School, located at 385 Ioof Avenue, Gilroy, CA 95020. Pursuant to the California Environmental Quality Act (CEQA; *Public Resources Code* Section 21000, et seq. and CEQA Guidelines), GUSD intends to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) to consider the potential environmental impacts that might result from the modernization Project. A Sacred Lands File check was conducted through the NAHC using the USGS quadrangle information for the proposed project, and results were negative for tribal resources.

GUSD is the Lead Agency for CEQA compliance on this project. Should the Indian Canyon Mutsun Band of Costanoan Tribe be interested in requesting consultation on this project, please notify the Gilroy Unified School District within **30 days of receiving this notice**. Please contact:

Paul Nadeau
Director of Facilities Planning & Management
Gilroy Unified School District
210 Swanston Lane
Gilroy, CA 95020

If you have any questions regarding this request, please contact me at (669) 261-5901.

Sincerely,

Paul Nadeau
Director of Facilities Planning & Management

cc: Project File
Kayla Knott, School Site Solutions, Inc

GILROY UNIFIED SCHOOL DISTRICT
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7810 Arroyo Circle, Gilroy, California 95020
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BOARD OF EDUCATION
Enrique Diaz ◈ B.C. Doyle ◈ Tuyen Fiack ◈ Mark Good
Anisha Munshi◈ James E. Pace ◈ Linda Piceno

April 29, 2019

Ann Marie Sayers
P.O. Box 28
Hollister, CA 95024

Dear Mrs. Sayers, Chairperson

The Gilroy Unified School District (GUSD) has received notice from the Native American Heritage Commission (NAHC) that the Indian Canyon Mutsun Band of Costanoan has requested consultation on projects located within the Nation's Geographic Area of Traditional and Cultural Affiliation in Santa Clara County, and is hereby providing formal notice of a proposed project.

The GUSD plans to modernize the existing South Valley Middle School, located at 385 Ioof Avenue, Gilroy, CA 95020. Pursuant to the California Environmental Quality Act (CEQA; *Public Resources Code* Section 21000, et seq. and CEQA Guidelines), GUSD intends to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) to consider the potential environmental impacts that might result from the modernization Project. A Sacred Lands File check was conducted through the NAHC using the USGS quadrangle information for the proposed project, and results were negative for tribal resources.

GUSD is the Lead Agency for CEQA compliance on this project. Should the Indian Canyon Mutsun Band of Costanoan Tribe be interested in requesting consultation on this project, please notify the Gilroy Unified School District within **30 days of receiving this notice**. Please contact:

Paul Nadeau
Director of Facilities Planning & Management
Gilroy Unified School District
210 Swanston Lane
Gilroy, CA 95020

If you have any questions regarding this request, please contact me at (669) 261-5901.

Sincerely,

Paul Nadeau
Director of Facilities Planning & Management

cc: Project File
Kayla Knott, School Site Solutions, Inc

GILROY UNIFIED SCHOOL DISTRICT
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7810 Arroyo Circle, Gilroy, California 95020
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SUPERINTENDENT
Dr. Deborah A. Flores, Ph.D.

BOARD OF EDUCATION
Enrique Diaz ◈ B.C. Doyle ◈ Tuyen Fiack ◈ Mark Good
Anisha Munshi◈ James E. Pace ◈ Linda Piceno

April 29, 2019

Charlene Nijmeh
20885 Redwood Road, Suite 232
Castro Valley, CA 94546

Dear Charlene Nijmeh, Chairperson

The Gilroy Unified School District (GUSD) has received notice from the Native American Heritage Commission (NAHC) that the Muwekma Ohlone Indian Tribe of the SF Bay Area has requested consultation on projects located within the Nation's Geographic Area of Traditional and Cultural Affiliation in Santa Clara County, and is hereby providing formal notice of a proposed project.

The GUSD plans to modernize the existing South Valley Middle School, located at 385 Ioof Avenue, Gilroy, CA 95020. Pursuant to the California Environmental Quality Act (CEQA; *Public Resources Code* Section 21000, et seq. and CEQA Guidelines), GUSD intends to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) to consider the potential environmental impacts that might result from the modernization Project. A Sacred Lands File check was conducted through the NAHC using the USGS quadrangle information for the proposed project, and results were negative for tribal resources.

GUSD is the Lead Agency for CEQA compliance on this project. Should the Muwekma Ohlone Indian Tribe of the SF Bay Area be interested in requesting consultation on this project, please notify the Gilroy Unified School District within **30 days of receiving this notice**. Please contact:

Paul Nadeau
Director of Facilities Planning & Management
Gilroy Unified School District
210 Swanston Lane
Gilroy, CA 95020

If you have any questions regarding this request, please contact me at (669) 261-5901.

Sincerely,

Paul Nadeau
Director of Facilities Planning & Management

cc: Project File
Kayla Knott, School Site Solutions, Inc.

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SUPERINTENDENT
Dr. Deborah A. Flores, Ph.D.

BOARD OF EDUCATION
Enrique Diaz ◈ B.C. Doyle ◈ Tuyen Fiack ◈ Mark Good
Anisha Munshi◈ James E. Pace ◈ Linda Piceno

April 29, 2019

Irenne Zwierlein
789 Canada Road
Woodside, CA 94062

Dear Mrs. Zwierlein, Chairperson

The Gilroy Unified School District (GUSD) has received notice from the Native American Heritage Commission (NAHC) that the Amah Mutsun Tribal Band of Mission San Juan Bautista has requested consultation on projects located within the Nation's Geographic Area of Traditional and Cultural Affiliation in Santa Clara County, and is hereby providing formal notice of a proposed project.

The GUSD plans to modernize the existing South Valley Middle School, located at 385 Ioof Avenue, Gilroy, CA 95020. Pursuant to the California Environmental Quality Act (CEQA; *Public Resources Code* Section 21000, et seq. and CEQA Guidelines), GUSD intends to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) to consider the potential environmental impacts that might result from the modernization Project. A Sacred Lands File check was conducted through the NAHC using the USGS quadrangle information for the proposed project, and results were negative for tribal resources.

GUSD is the Lead Agency for CEQA compliance on this project. Should the Amah Mutsun Tribal Band of Mission San Juan Bautista Tribe be interested in requesting consultation on this project, please notify the Gilroy Unified School District within **30 days of receiving this notice**. Please contact:

Paul Nadeau
Director of Facilities Planning & Management
Gilroy Unified School District
210 Swanston Lane
Gilroy, CA 95020

If you have any questions regarding this request, please contact me at (669) 261-5901.

Sincerely,

Paul Nadeau
Director of Facilities Planning & Management

cc: Project File
Kayla Knott, School Site Solutions, Inc.

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BOARD OF EDUCATION
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Anisha Munshi◈ James E. Pace ◈ Linda Piceno

April 29, 2019

Patrick Orozco
644 Peartree Drive
Watsonville, CA 95076

Dear Mr. Orozco, Chairman

The Gilroy Unified School District (GUSD) has received notice from the Native American Heritage Commission (NAHC) that the Costanoan Ohlone Rumsen-Mutsun Tribe has requested consultation on projects located within the Nation's Geographic Area of Traditional and Cultural Affiliation in Santa Clara County, and is hereby providing formal notice of a proposed project.

The GUSD plans to modernize the existing South Valley Middle School, located at 385 Ioof Avenue, Gilroy, CA 95020. Pursuant to the California Environmental Quality Act (CEQA; *Public Resources Code* Section 21000, et seq. and CEQA Guidelines), GUSD intends to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) to consider the potential environmental impacts that might result from the modernization Project. A Sacred Lands File check was conducted through the NAHC using the USGS quadrangle information for the proposed project, and results were negative for tribal resources.

GUSD is the Lead Agency for CEQA compliance on this project. Should the Costanoan Ohlone Rumsen-Mutsun Tribe be interested in requesting consultation on this project, please notify the Gilroy Unified School District within **30 days of receiving this notice**. Please contact:

Paul Nadeau
Director of Facilities Planning & Management
Gilroy Unified School District
210 Swanston Lane
Gilroy, CA 95020

If you have any questions regarding this request, please contact me at (669) 261-5901.

Sincerely,

Paul Nadeau
Director of Facilities Planning & Management

cc: Project File
Kayla Knott, School Site Solutions, Inc.

GILROY UNIFIED SCHOOL DISTRICT
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BOARD OF EDUCATION
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Anisha Munshi◈ James E. Pace ◈ Linda Piceno

April 29, 2019

Valentin Lopez
P.O. Box 5272
Galt, CA 95632

Dear Mr. Lopez, Chairperson

The Gilroy Unified School District (GUSD) has received notice from the Native American Heritage Commission (NAHC) that the Amah Mutsun Tribal Band has requested consultation on projects located within the Nation's Geographic Area of Traditional and Cultural Affiliation in Santa Clara County, and is hereby providing formal notice of a proposed project.

The GUSD plans to modernize the existing South Valley Middle School, located at 385 Ioof Avenue, Gilroy, CA 95020. Pursuant to the California Environmental Quality Act (CEQA; *Public Resources Code* Section 21000, et seq. and CEQA Guidelines), GUSD intends to prepare an Initial Study/Mitigated Negative Declaration (IS/MND) to consider the potential environmental impacts that might result from the modernization Project. A Sacred Lands File check was conducted through the NAHC using the USGS quadrangle information for the proposed project, and results were negative for tribal resources.

GUSD is the Lead Agency for CEQA compliance on this project. Should the Amah Mutsun Tribal Band be interested in requesting consultation on this project, please notify the Gilroy Unified School District within **30 days of receiving this notice**. Please contact:

Paul Nadeau
Director of Facilities Planning & Management
Gilroy Unified School District
210 Swanston Lane
Gilroy, CA 95020

If you have any questions regarding this request, please contact me at (669) 261-5901.

Sincerely,

Paul Nadeau
Director of Facilities Planning & Management

cc: Project File
Kayla Knott, School Site Solutions, Inc.

Local Government Tribal Consultation List Request
Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Type of List Requested

☒ CEQA Tribal Consultation List (AB 52) – *Per Public Resources Code § 21080.3.1, subs. (b), (d), (e) and 21080.3.2*

☐ General Plan (SB 18) - *Per Government Code § 65352.3.*

Local Action Type:

☐ General Plan ☐ General Plan Element ☐ General Plan Amendment

☐ Specific Plan ☐ Specific Plan Amendment ☐ Pre-planning Outreach Activity

Required Information

Project Title: **South Valley Middle School Modernization Project**

Local Government/Lead Agency: Gilroy Unified School District

Contact Person: Paul Nadeau

Street Address: 210 Swanston Lane

City: Gilroy Zip: 95020

Phone: (669) 261-5901 Fax:

Email: paul.nadeau@gilroyunified.org

Please CC:
Kayla Knott kayla@schoolsitesolutions.com

Specific Area Subject to Proposed Action

County: Santa Clara City/Community: Gilroy

Project Description:

The District plans to modernize the existing South Valley Middle School located at 385 Ioof Avenue in the city of Gilroy, Santa Clara County, California with possible demolition and addition of facilities within the existing school footprint.

Additional Request

☒ Sacred Lands File Search - *Required Information:*

USGS Quadrangle Name(s): Santa Cruz

Township: 10 South Range: 04 East Section(s): 31

Native American Heritage Commission
Tribal Consultation List
Santa Clara County
4/23/2019

Amah MutsunTribal Band
Valentin Lopez, Chairperson
P.O. Box 5272 — Costanoan
Galt, CA, 95632 — Northern Valley
Phone: (916) 743 - 5833 — Yokut
vlopez@amahmutsun.org

Amah MutsunTribal Band of Mission San Juan Bautista
Irenne Zwierlein, Chairperson
789 Canada Road — Costanoan
Woodside, CA, 94062
Phone: (650) 851 - 7489
Fax: (650) 332-1526
amahmutsuntribal@gmail.com

Costanoan Ohlone Rumsen-Mutsun Tribe
Patrick Orozco, Chairman
644 Peartree Drive — Costanoan
Watsonville, CA, 95076
Phone: (831) 728 - 8471
yanapvoic97@gmail.com

Indian Canyon Mutsun Band of Costanoan
Ann Marie Sayers, Chairperson
P.O. Box 28 — Costanoan
Hollister, CA, 95024
Phone: (831) 637 - 4238
ams@indiancanyon.org

Muwekma Ohlone Indian Tribe of the SF Bay Area
Charlene Nijmeh, Chairperson
20885 Redwood Road, Suite 232 — Costanoan
Castro Valley, CA, 94546
Phone: (408) 464 - 2892
cnijmeh@muwekma.org

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and section 5097.98 of the Public Resources Code.

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed South Valley Middle School Modernization Project, Santa Clara County.

APPENDIX D

TRAFFIC IMPACT ANALYSIS

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February 25, 2021

Mr. Paul Nadeau
Gilroy Unified School District
7810 Arroyo Circle
Gilroy, CA 95020

Focused Transportation Study for South Valley Middle School Modernization

Dear Mr. Nadeau;

As requested, W-Trans has prepared a focused transportation study for the proposed modernization of the South Valley Middle School campus located at 385 I.O.O.F. Avenue in Gilroy. According to the Transportation Impact Analysis guidelines published by the Santa Clara County Valley Transportation Authority, the preparation of a Transportation Impact Analysis (TIA) is not required since this project would generate fewer than 100 a.m. or p.m. peak hour trips. Instead, a focused transportation study was prepared to evaluate issues related to site access, trip generation and vehicle miles traveled. It is also noted that at the time of the preparation of this letter, the region was observing a shelter in place protocol and in-person school instruction at this campus was reduced.

Project Description

The Gilroy Unified School District (GUSD) plans to reconfigure access to the campus by relocating the school driveways from their current locations on I.O.O.F. Avenue to Murray Avenue as part of a campus modernization plan. The intent of moving the access points is to alleviate congestion on I.O.O.F. Avenue by shifting the school access further away from the neighboring Gilroy Prep School and the District maintenance and transportation department, both of which have driveways on I.O.O.F. Avenue. South Valley Middle School currently serves approximately 800 students. This level of enrollment is expected to remain unchanged in the future with the implementation of the campus modernization plan.

Local Roadways

I.O.O.F Avenue is a two-lane east-west major collector that provides access between Murray Avenue and Monterey Road. Primary access to the Gilroy Prep School, South Valley Middle School and numerous single-family homes is provided by I.O.O.F. Avenue. I.O.O.F. Avenue has a posted speed limit of 25 miles per hour (mph). On-street parking is permitted on both sides of I.O.O.F. Avenue between Murray Avenue and Forest Street.

Murray Avenue is a two-lane north-south major collector that provides access between Cohansey Avenue and Lewis Street. The posted speed limit is 35 mph, except near the South Valley Middle School campus where the speed limit is 25 mph. Near South Valley Middle School, on-street parking is permitted on both sides of Murray Avenue. Based on counts conducted in the Fall of 2018, approximately 8,200 vehicles use the segment Murray Avenue adjacent to the school each day.

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Alternative Transportation Modes

Pedestrians

Pedestrian facilities include sidewalks, crosswalks, pedestrian signal phases, curb ramps, and various streetscape amenities such as lighting, benches, etc. In general, a complete network of sidewalks, crosswalks, pedestrian signals, and curb ramps provides access for pedestrians in the vicinity of South Valley Middle School.

The proposed modernization plan would change the campus so that the main entrance would be facing Murray Avenue.

Recommendation – To enhance pedestrian safety, it is recommended that an additional crosswalk be provided on Murray Avenue adjacent to the main entrance to the school at Polk Court. This crosswalk would be placed approximately 360 feet north of the existing crosswalk at I.O.O.F. Avenue and would provide more direct access between the school and the neighborhood east of Murray Avenue.

Bicycle Network

The *Highway Design Manual*, Caltrans, 2017, classifies bikeways into four categories:

- **Class I Multi-Use Path** – a completely separated right-of-way for the exclusive use of bicycles and pedestrians with cross flows of motorized traffic minimized.
- **Class II Bike Lane** – a striped and signed lane for one-way bike travel on a street or highway.
- **Class III Bike Route** – signing only for shared use with motor vehicles within the same travel lane on a street or highway.
- **Class IV Bikeway** – also known as a separated bikeway, a Class IV Bikeway is for the exclusive use of bicycles and includes a separation between the bikeway and the motor vehicle traffic lane. The separation may include, but is not limited to, grade separation, flexible posts, inflexible physical barriers, or on-street parking.

In the immediate project area, Class II bike lanes exist on Murray Avenue between Lincoln Court and I.O.O.F. Avenue as well as on Forest Street between I.O.O.F Avenue and East 9th Street. Bicyclists ride in the roadway and/or on sidewalks along all other streets within the project study area.

Transit Facilities

The Santa Clara Valley Transportation Authority (VTA) provides fixed route bus service and light rail train service in Santa Clara County. Two bicycles can be carried on VTA light rail trains and most VTA buses. Bike rack space is on a first come, first served basis. Additional bicycles are allowed on VTA buses at the discretion of the driver.

VTA Route 68 provides local bus service between the Gilroy Transit Center and San Jose Diridon Station via Monterey Road. This route operates daily with buses every 15 to 20 minutes from 4:30 a.m. to 12:00 a.m. on weekdays and from 5:00 a.m. to 12:00 a.m. on weekends. The nearest stop is located on Monterey Road approximately 1,500 feet from the South Valley Middle School campus.

Dial-a-ride, also known as paratransit, or door-to-door service, is available for those who are unable to independently use the transit system due to a physical or mental disability. VTA Paratransit is designed to serve the needs of individuals with disabilities within the City of Gilroy and greater Santa Clara County.

Trip Generation

There are approximately 800 students currently enrolled at the school, and future enrollment is not expected to change with the campus modernization plan. Therefore, the number of vehicle trips attributable to the school is

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also not expected to change with the planned project. However, to support the vehicular access study and evaluate the relocation of trips in the area during this time of limited activity on campus, the trip generation for the school was estimated using standard rates published by the Institute of Transportation Engineers (ITE) in *Trip Generation Manual*, 10th Edition, 2017 for "Middle School/Junior High School)" (ITE LU #522). These results are summarized in Table 1.

Table 1 – Trip Generation Summary

Land Use	Units	Daily		AM Peak Hour				PM Peak Hour			
		Rate	Trips	Rate	Trips	In	Out	Rate	Trips	In	Out
Middle/Jr High School	800 students	2.13	1,704	0.58	464	251	213	0.17	136	67	69

Finding – The proposed campus modernization plan would neither increase or decrease the number of vehicle trips expected to or from the school.

Traffic Count

The directional peak hour and bidirectional average daily traffic (ADT) on surrounding street segments was determined based on 24-hour counts conducted on a typical weekday while schools were in session. These counts, provided by City of Gilroy staff, were gathered on multiple days in 2018 starting on Tuesday, September 18 and ending Wednesday, September 20. Detailed count summaries for both Murray Avenue and I.O.O.F. Avenue are enclosed. The average volumes obtained from these counts are summarized in Table 2.

Table 2 – Traffic Volumes

Roadway Segment	AM Peak Hour (7:00 – 8:00 AM)		School PM Peak Hour (3:00 – 4:00 PM)		Bidirectional ADT
	NB or EB	SB or WB	NB or EB	SB or WB	
1. I.O.O.F Avenue	189	308	229	245	5,229
2. Murray Avenue	306	275	279	340	8,172

Note: ADT = Average Daily Traffic

Collision Rate

A summary of collision rates along I.O.O.F. Avenue and Murray Avenue was published in the City of Gilroy Engineering & Traffic Survey (E&TS) prepared by TJKM in May 2019 for the five-year period from January 1, 2013 through December 31, 2017. As documented in the E&TS report, these roadway segments demonstrated collision rates higher than the statewide average for similar facilities. A summary for each roadway is shown in Table 3.

Table 3 –Summary of Accident Rates

Roadway Segment	Total Number of Collisions	Observed Collision Rate	Statewide Average Rate
1. I.O.O.F. Avenue	13	3.80	2.21
2. Murray Avenue	44	6.45	2.21

Source: Engineering & Traffic Survey, City of Gilroy, TJKM, May 20, 2019

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Site Circulation and Access

Site Access

Vehicular access to the school is currently provided by five driveways on I.O.O.F Avenue. There are also three driveways located on Murray Avenue serving four auxiliary buildings unrelated to school operations. The proposed campus modernization plan would reconfigure the campus by removing the auxiliary non-school buildings and orienting the front of the school so that it faces Murray Avenue. Under the proposed plan, there would be one ingress-only driveway and one egress-only driveway on I.O.O.F Avenue and two ingress-only driveways and two egress-only driveways on Murray Avenue, as shown in the enclosed preliminary site plan.

The proposed campus improvements would be include three separate parking lots. The north parking lot adjacent to Murray Avenue would be designated for staff parking and school bus access only. The south parking lot on Murray Avenue would serve as the primary student drop-off and pick-up area. The remaining parking lot along I.O.O.F. Avenue would be designated for staff use only; student drop-off and pick-ups would be discouraged or prohibited within this area.

The curbside student drop-off and pick-up area may become congested during the morning and afternoon periods immediately before and after school operating hours. To alleviate the anticipated congestion, it is recommended that vehicles exiting the driveway be limited to right-turn movements only.

Recommendation – To maximize efficient egress from the drop-off and pick-up lane area in the south parking lot, it is recommended that the driveway exit onto Murray Street be limited to right-turn movements only.

Sight Distance

At driveways, a substantially clear line of sight should be maintained between the driver of a vehicle waiting at the crossroad and the driver of an approaching vehicle. Sight distance along Murray Avenue and I.O.O.F. Avenue at each project driveway was evaluated based on sight distance criteria contained in the *Highway Design Manual* published by Caltrans. The recommended sight distances for driveways are based on stopping sight distance, which uses the approach travel speeds as the basis for determining the recommended sight distance. The posted "school zone" speed limit on Murray Avenue near the project site is 25 mph, and therefore the minimum stopping sight distance needed is 150 feet.

Based on a review of field conditions and project plans, the sight distances at the proposed egress driveways along Murray Avenue would exceed 150 feet in each direction. However, this may be hindered at times by on-street parking and landscaping.

Finding – Sight distances along Murray Avenue and I.O.O.F. Avenue at each project driveway is adequate for the posted speed limit.

Recommendation – To maintain a minimum sight distance of 150 feet at each driveway access point, it is recommended that any vegetation near the project's driveways should be trimmed to an appropriate height of less than three feet and trees trimmed so that nothing hangs below a height of seven feet from the surface of the roadway. Also, on-street parking should be restricted for at least 40 feet on both sides of each driveway.

Murray Avenue Turn Lane Evaluation

In designing an intersection or driveway entrance, left-turning traffic should be removed from the through lanes whenever practical. Ideally, left-turn lanes should be provided at street intersections or driveways along major arterial and high-volume collector roads wherever left turns are permitted. Left-turn facilities such as two-way

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left-turn lanes (TWLTL) or separated left turn lanes should be established on roadways where traffic volumes are high enough to warrant them.

Continuous TWLTL's separate left-turning vehicles from through traffic, which can reduce delay to through vehicles and can lead to a reduction in rear-end and sideswipe collisions. TWLTL's also provide spatial separation between opposing lanes of traffic, which can lead to a reduction in head-on collisions. These lanes can also function as a by-pass lane for emergency vehicles.

Unfortunately, neither the California MUTCD nor the Caltrans *Highway Design Manual* offers specific guideline for the application of two-way left-turn lanes. However, the Kentucky Transportation Center developed a set of recommended thresholds for consideration of TWLTL implementation. The following list summarizes key recommendations which are applicable to Murray Avenue:

- Operating speeds of 45 mph or less
- Average Daily Traffic (ADT) of 17,000 or less for a two-lane facility
- 10 or more access points per mile
- Maximum access density of 85 points per mile
- Minimum TWLTL length of 425 feet

Murray Avenue along the school campus frontage would satisfy the conditions recommended by the Kentucky Transportation Center for TWLTL implementation because the operating speeds are less than 45 mph, the ADT is less than 17,000, there are nearly 10 driveway access points and it has a length of at least 425 feet. Further, this segment of roadway was identified as having a collision rate higher than the statewide average for similar facilities. As such, Murray Avenue satisfies the criteria for implementation of a TWLTL.

The values from the American Association of State Highway and Transportation Officials' (AASHTO) *A Policy on Geometric Design of Highways and Streets*, 2018 ("Green Book"), Figure 9-35 were used to determine whether a dedicated left-turn lane would be recommended at the drop-off lane driveway on Murray Avenue. It should be noted that the satisfaction of the volume-based guidelines or warrants presented in the AASHTO Green Book may indicate situations where a left-turn lane may be desirable, but not necessarily situations where a left-turn lane is definitely needed. Site-specific conditions need to be evaluated to determine the feasibility of adding a turn lane and whether the physical constraints along the road make the addition of a turn lane practical or not. The anticipated vehicle volumes during the a.m. and school p.m. peak hour would satisfy the volume thresholds defined by AASHTO at the drop-off lane entrance driveway on Murray Avenue, indicating that a dedicated left-turn lane (or TWLTL) may be desirable. A copy of Figure 9-35 is enclosed.

Additionally, this portion of Murray Avenue has an observed collision rate of 6.45 collisions per million vehicle miles (C/MVM) which is higher than the statewide average of 2.21 C/MVM for similar roadways. The addition of either a dedicated left-turn lane or TWLTL may also help reduce the frequency of crashes along Murray Avenue.

Due to the geometric constraints of Murray Avenue, implementation of either a TWLTL or separate left-turn lane may require the removal of on-street parking along this segment of the roadway.

Finding –The anticipated number of left turning vehicle movements entering the school drop-off or pick-up area on Murray Avenue, combined with the overall geometric characteristics of the roadway, would satisfy the conditions defined by AASHTO and the Kentucky Transportation Center for consideration of a separate left turn lane.

Recommendation – The lane striping of Murray Avenue should be modified to include a two-way left-turn lane (or similar feature) between I.O.O.F. Avenue and approximately 100 feet north of Adams Court. A TWLTL would

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be expected to improve access at all driveways and side streets along this segment of Murray Avenue. It is noted that on-street parking would likely be impacted to accommodate this improvement.

Vehicle Miles Traveled (VMT) Evaluation

Senate Bill (SB) 743 established a change in the metric to be applied for determining traffic impacts associated with development projects. Rather than the delay-based criteria associated with a Level of Service analysis, the increase in Vehicle Miles Traveled (VMT) as a result of a project is now the basis for determining impacts under the California Environmental Quality Act (CEQA). Because the City of Gilroy has not yet adopted a standard of significance for evaluating VMT, comparable guidance provided by the Cities of Los Altos, San Jose, as well as Sacramento and Contra Costa Counties was used. Guidance adopted by Los Altos, Sacramento County and Contra Costa County states that neighborhood-based schools are presumed to have a less-than-significant impact on vehicle miles traveled. The policy for San Jose states that schools with no net change in VMT would be considered to have a less-than-significant VMT impact.

The proposed project would be expected to result in no net change in VMT since the number of enrolled students would not increase with the campus modernization plan nor would the attendance boundaries change. Future students are likely to have similar travel patterns as current students, further strengthening the conclusion that the project would result in no net change to the total vehicle miles traveled.

Based on this assessment, the proposed campus modernization can be classified as a local-serving land use and as having no net change in vehicle miles traveled. Based on the previously summarized standards, the proposed project may be presumed to result in a less-than-significant VMT impact.

Finding – The project is anticipated to result in a less-than-significant impact on vehicle miles traveled.

Conclusions and Recommendations

- A new crosswalk on Murray Avenue approximately 360 feet north of I.O.O.F Avenue at Polk Court is recommended.
- Nearby bicycle, and transit facilities would be adequate to serve the project.
- The proposed project would not alter the expected number of vehicle trips arriving to or departing from the school.
- To maximize efficient egress from the drop-off and pick-up lane area, it is recommended that the driveway exit onto Murray Street be limited to right-turn movements only.
- To maintain a minimum sight distance of 150 feet at each driveway access point, it is recommended that any vegetation near the project's driveways should be trimmed to an appropriate height of less than three feet and trees trimmed so that nothing hangs below a height of seven feet from the surface of the roadway. Also, on-street parking should be restricted for at least 40 feet on both sides of each driveway.
- A continuous two-way left-turn lane is recommended along the segment of Murray Avenue adjacent to the school. It should be noted that the availability of on-street parking would be impacted to accommodate the creation of a two-way left-turn lane.
- The proposed project would have a less-than-significant transportation impact on vehicle miles traveled.

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Thank you for giving W-Trans the opportunity to provide these services. Please call if you have any questions.

Sincerely,

Kenneth Jeong, PE
Traffic Engineer

Mark Spencer, PE
Senior Principal

MES/kbj/GIL006.L1

Enclosures: Traffic Count Sheets; Site Plans; Left-Turn Lane Warrant

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Location: I.O.O.F AVE BETWEEN MONTEREY ST & MURRAY AVE
Date Range: 9/18/2018 - 9/24/2018
Site Code: 36

	Tuesday			Wednesday			Thursday			Friday			Saturday			Sunday			Monday					
	9/18/2018			9/19/2018			9/20/2018			9/21/2018			9/22/2018			9/23/2018			9/24/2018			Mid-Week Average		
Time	EB	WB	Total	EB	WB	Total	EB	WB	Total	EB	WB	Total	EB	WB	Total	EB	WB	Total	EB	WB	Total	EB	WB	Total
12:00 AM	6	14	20	6	7	13	8	17	25	-	-	-	-	-	-	-	-	-	-	-	-	7	13	19
1:00 AM	9	5	14	4	4	8	5	6	11	-	-	-	-	-	-	-	-	-	-	-	-	6	5	11
2:00 AM	3	1	4	6	7	13	3	2	5	-	-	-	-	-	-	-	-	-	-	-	-	4	3	7
3:00 AM	7	8	15	10	7	17	6	5	11	-	-	-	-	-	-	-	-	-	-	-	-	8	7	14
4:00 AM	20	29	49	12	19	31	15	24	39	-	-	-	-	-	-	-	-	-	-	-	-	16	24	40
5:00 AM	26	65	91	24	70	94	34	72	106	-	-	-	-	-	-	-	-	-	-	-	-	28	69	97
6:00 AM	42	114	156	44	106	150	41	125	166	-	-	-	-	-	-	-	-	-	-	-	-	42	115	157
7:00 AM	**171**	**309**	**480**	**211**	**311**	**522**	**184**	**303**	**487**	-	-	-	-	-	-	-	-	-	-	-	-	**189**	**308**	**496**
8:00 AM	156	213	369	126	232	358	127	182	309	-	-	-	-	-	-	-	-	-	-	-	-	136	209	345
9:00 AM	84	103	187	90	100	190	77	103	180	-	-	-	-	-	-	-	-	-	-	-	-	84	102	186
10:00 AM	98	88	186	93	110	203	93	85	178	-	-	-	-	-	-	-	-	-	-	-	-	95	94	189
11:00 AM	118	138	256	118	162	280	106	152	258	-	-	-	-	-	-	-	-	-	-	-	-	114	151	265
12:00 PM	123	127	250	134	219	353	138	136	274	-	-	-	-	-	-	-	-	-	-	-	-	132	161	292
1:00 PM	128	149	277	215	189	404	110	145	255	-	-	-	-	-	-	-	-	-	-	-	-	151	161	312
2:00 PM	146	213	359	154	178	332	180	217	397	-	-	-	-	-	-	-	-	-	-	-	-	160	203	363
3:00 PM	**241**	**248**	**489**	200	217	417	246	**270**	**516**	-	-	-	-	-	-	-	-	-	-	-	-	229	**245**	**474**
4:00 PM	229	214	443	**238**	212	**450**	226	219	445	-	-	-	-	-	-	-	-	-	-	-	-	231	215	446
5:00 PM	240	234	474	226	**224**	**450**	**261**	234	495	-	-	-	-	-	-	-	-	-	-	-	-	**242**	231	473
6:00 PM	169	172	341	170	153	323	155	214	369	-	-	-	-	-	-	-	-	-	-	-	-	165	180	344
7:00 PM	124	130	254	125	142	267	158	136	294	-	-	-	-	-	-	-	-	-	-	-	-	136	136	272
8:00 PM	101	78	179	75	102	177	113	111	224	-	-	-	-	-	-	-	-	-	-	-	-	96	97	193
9:00 PM	77	61	138	66	74	140	59	61	120	-	-	-	-	-	-	-	-	-	-	-	-	67	65	133
10:00 PM	38	23	61	30	37	67	40	33	73	-	-	-	-	-	-	-	-	-	-	-	-	36	31	67
11:00 PM	17	18	35	14	17	31	17	15	32	-	-	-	-	-	-	-	-	-	-	-	-	16	17	33
Total	2,373	2,754	5,127	2,391	2,899	5,290	2,402	2,867	5,269	-	-	-	-	-	-	-	-	-	-	-	-	2,389	2,840	5,229
Percent	46%	54%	-	45%	55%	-	46%	54%	-	-	-	-	-	-	-	-	-	-	-	-	-	46%	54%	-
AM Peak	07:00	07:00	07:00	07:00	07:00	07:00	07:00	07:00	07:00	-	-	-	-	-	-	-	-	-	-	-	-	07:00	07:00	07:00
Vol.	171	309	480	211	311	522	184	303	487	-	-	-	-	-	-	-	-	-	-	-	-	189	308	496
PM Peak	15:00	15:00	15:00	16:00	17:00	16:00	17:00	15:00	15:00	-	-	-	-	-	-	-	-	-	-	-	-	17:00	15:00	15:00
Vol.	241	248	489	238	224	450	261	270	516	-	-	-	-	-	-	-	-	-	-	-	-	242	245	474

1. Mid-week average includes data between Tuesday and Thursday.

Project Manager: (415) 310-6469
project.manager.ca@idaxdata.com

Location: MURRAY AVE BETWEEN LEAVESLEY RD & I.O.O.F AVE
Date Range: 9/18/2018 - 9/24/2018
Site Code: 71

	Tuesday			Wednesday			Thursday			Friday			Saturday			Sunday			Monday					
	9/18/2018			9/19/2018			9/20/2018			9/21/2018			9/22/2018			9/23/2018			9/24/2018			Mid-Week Average		
Time	NB	SB	Total	NB	SB	Total	NB	SB	Total	NB	SB	Total	NB	SB	Total	NB	SB	Total	NB	SB	Total	NB	SB	Total
12:00 AM	18	32	50	19	27	46	21	45	66	-	-	-	-	-	-	-	-	-	-	-	-	19	35	54
1:00 AM	13	12	25	13	21	34	11	24	35	-	-	-	-	-	-	-	-	-	-	-	-	12	19	31
2:00 AM	24	18	42	11	25	36	14	22	36	-	-	-	-	-	-	-	-	-	-	-	-	16	22	38
3:00 AM	27	13	40	25	10	35	21	14	35	-	-	-	-	-	-	-	-	-	-	-	-	24	12	37
4:00 AM	114	15	129	112	17	129	117	20	137	-	-	-	-	-	-	-	-	-	-	-	-	114	17	132
5:00 AM	201	43	244	198	39	237	209	34	243	-	-	-	-	-	-	-	-	-	-	-	-	203	39	241
6:00 AM	204	90	294	221	99	320	219	109	328	-	-	-	-	-	-	-	-	-	-	-	-	215	99	314
7:00 AM	**300**	291	591	**303**	265	568	**315**	268	583	-	-	-	-	-	-	-	-	-	-	-	-	**306**	275	581
8:00 AM	288	**331**	**619**	275	**352**	**627**	268	**335**	**603**	-	-	-	-	-	-	-	-	-	-	-	-	277	**339**	**616**
9:00 AM	154	150	304	151	154	305	167	172	339	-	-	-	-	-	-	-	-	-	-	-	-	157	159	316
10:00 AM	162	134	296	155	138	293	167	147	314	-	-	-	-	-	-	-	-	-	-	-	-	161	140	301
11:00 AM	165	177	342	178	190	368	162	172	334	-	-	-	-	-	-	-	-	-	-	-	-	168	180	348
12:00 PM	163	189	352	216	248	464	196	200	396	-	-	-	-	-	-	-	-	-	-	-	-	192	212	404
1:00 PM	183	223	406	227	239	466	218	238	456	-	-	-	-	-	-	-	-	-	-	-	-	209	233	443
2:00 PM	255	333	588	269	**385**	**654**	275	366	641	-	-	-	-	-	-	-	-	-	-	-	-	266	361	628
3:00 PM	**310**	344	654	271	323	594	256	354	610	-	-	-	-	-	-	-	-	-	-	-	-	279	340	619
4:00 PM	289	338	627	**276**	331	607	278	327	605	-	-	-	-	-	-	-	-	-	-	-	-	**281**	332	613
5:00 PM	242	**417**	**659**	259	362	621	**282**	**413**	**695**	-	-	-	-	-	-	-	-	-	-	-	-	261	**397**	**658**
6:00 PM	217	281	498	184	271	455	219	323	542	-	-	-	-	-	-	-	-	-	-	-	-	207	292	498
7:00 PM	225	220	445	163	231	394	198	312	510	-	-	-	-	-	-	-	-	-	-	-	-	195	254	450
8:00 PM	164	200	364	154	214	368	159	198	357	-	-	-	-	-	-	-	-	-	-	-	-	159	204	363
9:00 PM	105	150	255	106	126	232	118	124	242	-	-	-	-	-	-	-	-	-	-	-	-	110	133	243
10:00 PM	59	87	146	55	111	166	58	82	140	-	-	-	-	-	-	-	-	-	-	-	-	57	93	151
11:00 PM	39	43	82	33	58	91	51	55	106	-	-	-	-	-	-	-	-	-	-	-	-	41	52	93
Total	3,921	4,131	8,052	3,874	4,236	8,110	3,999	4,354	8,353	-	-	-	-	-	-	-	-	-	-	-	-	3,931	4,240	8,172
Percent	49%	51%	-	48%	52%	-	48%	52%	-	-	-	-	-	-	-	-	-	-	-	-	-	48%	52%	-
AM Peak	07:00	08:00	08:00	07:00	08:00	08:00	07:00	08:00	08:00	-	-	-	-	-	-	-	-	-	-	-	-	07:00	08:00	08:00
Vol.	300	331	619	303	352	627	315	335	603	-	-	-	-	-	-	-	-	-	-	-	-	306	339	616
PM Peak	15:00	17:00	17:00	16:00	14:00	14:00	17:00	17:00	17:00	-	-	-	-	-	-	-	-	-	-	-	-	16:00	17:00	17:00
Vol.	310	417	659	276	385	654	282	413	695	-	-	-	-	-	-	-	-	-	-	-	-	281	397	658

1. Mid-week average includes data between Tuesday and Thursday.

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PLAN
NORTH

Left-Turn Lane Warrant

AASHTO, 2018

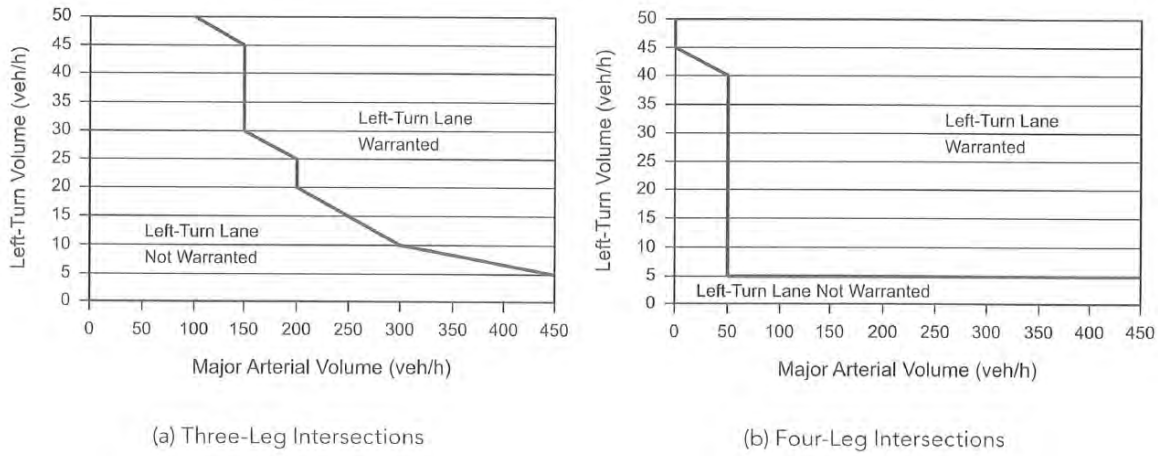

Figure 9-35. Suggested Left-Turn Lane Warrants Based on Results from Benefit–Cost Evaluations for Intersections on Arterials in Urban Areas (*16*)

Existing plus Campus Modernization Condition			
Three-Leg Intersection and Peak Hour	Left-Turns (veh/hr)	Opposing Major Volume (veh/hr/lane)	Separate Left-Turn Lane Warranted? (Yes/No)
Murray Ave Drop-Off Entrance (AM)	~150	275	Yes
Murray Ave Drop-Off Entrance (School PM)	~100	340	Yes