



**U.S. Department of Housing and Urban  
Development**

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Washington, DC 20410  
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# **Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58**

## **Project Information**

**Project Name:** Placentia Baker Street

**Responsible Entity:** OC Housing & Community Development  
1501 E. Saint Andrew Place, First Floor  
Santa Ana, California 92705

**Grant Recipient**  
(if different than Responsible Entity):

**State/Local Identifier:** CA/059

**Preparer:** Suzanne Harder, OC Housing and  
Community Development

**Certifying Officer Name and Title:** Julia Bidwell, Director  
OC Housing & Community Development

**Grant Recipient**  
(if different than Responsible Entity):

**Consultant** (if applicable): Jonathan Rigg, Dudek  
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## **Project Location:**

The proposed Placentia Baker Street Project (Project) encompasses five separate parcels along Baker Street in the City of Placentia in Orange County, California (**Figure 1**). The Project is located on Assessor's Parcel Numbers 339-392-14 and 339-392-15 (300 and 307 Baker Street), 339-391-14 and 339-391-15 (312, and 314 Baker Street), and 339-392-19 (323 Baker Street), or collectively 300, 307, 312, 314, and 323 Baker Street (Project Site). The Project Site consists of 0.77 acres total and all four lots (five parcels) are currently vacant. The parcels are located at the eastern terminus of Baker Street (cul-de-sac) and are situated on the north and south sides of the street. The Project Site has a General Plan Land Use and zoning designation of Old Town Placentia (Old Town). Old Town has detailed regulations for development meant to, "facilitate the enhancement of the city's historic core, characterized by its small-scaled village atmosphere, shopfront architecture, mix of uses and inviting streetscapes" (City of Placentia, 2023). Within Old Town, the Project Site is zoned as High Density Residential (HDR). The proposed Project will utilize State Density Bonus law and is eligible for up to four incentives and concessions. The proposed concessions involves a 35% increase in unit density onsite, a building height increase, a reduction in the amount of common open spaces, and a parking requirement reduction. The proposed Project Site is bordered by single-family and multi-family residential land uses to the north and west, and railroad tracks followed by a multi-tenant industrial building to the south. Melrose Street and Old Town Public Parking lot 6 are situated directly east of the proposed Project Site.

## **Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:**

The proposed Placentia Baker Street Project would be a partnership between the City of Placentia and Mercy Housing (Developer) is "a leading affordable housing organization, working to eliminate homelessness, and housing insecurity for low-income families, seniors, individuals and people with disabilities" (Mercy Housing, 2023). The proposed Project Site, which is comprised of five currently vacant parcels, would be developed with affordable housing aimed at supporting families and individuals exiting homelessness earning between 15% to 60% of the area mean income (AMI). The new 100% affordable housing community would feature a 5-story building with 68 apartments, onsite and satellite parking for a total of 94 parking spaces distributed between podium and surface parking areas. The units would be divided into 28 one-bedroom units, 20 two-bedroom units, 19 three-bedroom units, and 1 two-bedroom manager's unit. One (1) unit would be reserved for a tenant with an income of 15% area median income (AMI), 17 units would be reserved for tenants with an income of 30% of AMI (restricted by the County), and the remaining units will be reserved for tenants with incomes between 40% to 60% AMI. In addition, the proposed Project would provide 17 Mental Health Services Act units, which would be serviced by the Orange County Health Care Agency (HCA).

According to the City's Housing Element, "the most recent available Orange County Point-in-Time Count and Survey report for the Homeless (2019) reported 55 unsheltered and 108 sheltered homeless persons in Placentia." Inclusion of Permanent Supportive Housing (PSH) units supports the City's housing goals related to homelessness and transitional housing, while supporting the Continuum Care Strategic Plan administered by Orange County's Continuum of Care System (November 2023). The HCA would provide case management services for residents of the 17 PSH units while an onsite Resident Services Coordinator would be available to assist residents of the non-MHSA units. Mercy Housing California's resident services staff would work with all residents and create programming to support their needs. Residents would be provided with a robust selection of educational opportunities that include health education, nutrition and cooking, financial literacy, and youth programming. The Resident Services Coordinator could also conduct job specific training and assist residents in finding and applying for employment opportunities. Social services provided onsite would also be designed to build community



between residents through movie nights, game nights, reading groups, and more. Additional details about the social services that would be provided to residents onsite can be found in the Placentia Baker Street Social Services Plan (**Attachment 1**).

Onsite amenities, such as a courtyard with play areas, office spaces for property management, resident services, a centrally located laundry room, and a skydeck and community restroom on the fifth floor. The proposed Project would have split parking divided between a lot attached to the Project Site and a satellite parking area on a non-adjoining lot on the opposite side of adjacent single family residential buildings along Baker Street. The satellite parking area located near the main Project Site would be fully gated with access only for residents. Situated within Old Town, the proposed Project would provide residents with nearby access to multiple offsite amenities, including transit via the Metrolink station, restaurants, greenspaces, and retail. Development of affordable housing adjacent to a Transit Oriented Development Area (TOD) supports housing objectives listed in the City's Housing Element (November 2023). Site design for the proposed Project would conform to a Spanish colonial aesthetic that reflects the city's architectural landscape and aligns with the city's vision for the Old Town Placentia Revitalization Plan (2017). Current site plans and the Architectural/Construction Design Narrative for the proposed Project are included as **Attachments 2 and 3**.

#### **Statement of Purpose and Need for the Proposal** [40 CFR 1508.9(b)]:

As demand increases for Orange County services and Orange County's population increases, the need for additional housing and access to government services has also increased.

The proposed Project's objectives are as follows:

- Create new affordable, safe, attractive, and service-enriched residences for low-income individuals experiencing homelessness.
- Create a housing community that fits into and improves the existing neighborhood in style, texture, scale, and relation to the street.
- Encourage transit-oriented development around the future Metrolink station to increase ridership and promote alternative modes of transportation to the automobile.

#### **Existing Conditions and Trends** [24 CFR 58.40(a)]:

According to the Phase I Environmental Site Assessment (ESA) completed by Partner Engineering and Science Inc. in September 2023, the Project Site is currently vacant and covered with weeds, natural vegetation, trees, and bushes (**see Attachment 4**). Historical photographs of the Project Site show that portions of the site have been developed with residential structures and even a commercial structure at different times over the past century. However, according to photographs analyzed as part of the Phase I ESA, the entire Project Site has been vacant since 2012.

**North:** Single-family and multi-family residences

**Northeast:** Melrose Street followed by a commercial building

**East:** Melrose Street followed by Old Town Public Parking Lot #6

**Southeast:** Railroad tracks followed by vacant land

**South:** Railroad tracks followed by a multi-tenant industrial building

**Southwest:** Baker Street followed by residences (320-326 Baker Street)

**West:** Residential (320 Walnut Avenue)

**Between:** Residential (311-319 Baker Street) between the portion of the Project Site at 323 Baker Street and the portion of the Project Site at 307-311 Baker Street

## **Funding Information**

<b>Grant Number</b>	<b>HUD Program</b>	<b>Funding Amount</b>
	17 Mainstream and/or Housing Choice Project-Based Vouchers	\$6,238,320 (20-year estimated value)

**Estimated Total HUD Funded Amount:**

**\$6,238,320**

**Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]:**

**\$47,060,773**

## **Compliance with 24 CFR 50.4, 58.5, and 58.6 Laws and Authorities**

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

<b>Compliance Factors:</b> Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations
<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6</b>		
<b>Airport Hazards</b>  24 CFR Part 51 Subpart D	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	HUD's policy is to apply standards to prevent incompatible development around civil airports or military airfields, consistent with Title 24 of the Code of Federal Regulations (CFR), Part 51, Subpart D. According to the U.S. Environmental Protection Agency's (EPA) NEPAassist tool ( <a href="https://nepassisttool.epa.gov//nepamap.aspx">https://nepassisttool.epa.gov//nepamap.aspx</a> ), there are no military airports within 15,000 feet of the subject property, or civilian airports within 2,500 feet of the subject property (EPA 2023a). The proposed undertaking is in compliance with the U.S. Department of Housing and Urban Development's (HUD)

		airport hazards regulations, and no mitigation is warranted. The nearest airports are the Fullerton Municipal Airport (approximately 7.1 miles West of the Project Site) and the Chino Airport (approximately 18.6 miles east of the site). The closest military airport is Los Alamitos Army Airfield Base Operations, about 10.6 miles southwest of the Project Site. The Project is in compliance with airport hazards requirements (see <b>Attachment 5; ERR 1</b> ).
<b>Coastal Barrier Resources</b>  Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The Coastal Barrier Resources Act (CBRA) of 1982 designated relatively undeveloped coastal barriers along the Atlantic and Gulf coasts as part of the John H. Chafee Coastal Barrier Resources System (CBRS) and made these areas ineligible for most new federal expenditures and financial assistance. The Coastal Barrier Improvement Act (CBIA) of 1990 reauthorized the CBRA; expanded the CBRS to include undeveloped coastal barriers along the Florida Keys, Great Lakes, Puerto Rico, and U.S. Virgin Islands; and added a new category of coastal barriers to the CBRS called “otherwise protected areas” (OPAs). OPAs are undeveloped coastal barriers that are within the boundaries of an area established under federal, State, or local law, or held by a qualified organization, primarily for wildlife refuge, sanctuary, recreational, or natural resource conservation purposes.</p> <p>According to Coastal Barrier Resources System (CBRS) information (<a href="https://fwsprimary.wim.usgs.gov/v2/">https://fwsprimary.wim.usgs.gov/v2/</a>), there are no units of the CBRS in California, and the Project Site is not within a CBRS unit (USFWS 2019). Therefore, the Project is in compliance with HUD’s CBRS regulations, and no mitigation is warranted. The Project is in compliance with the Coastal Barrier Resources Act (see <b>Attachment 6; ERR 2</b>).</p>
<b>Flood Insurance</b>  Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001-4128 and 42 USC	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The Flood Disaster Protection Act of 1973 (42 USC 4012a) requires that projects receiving federal assistance and located in an area identified by FEMA as being within a Special Flood Hazard Area (SFHA) be covered by flood insurance under the National Flood Insurance

5154a]		<p>Program (NFIP). SFHAs are hazard areas that are subject to inundation by the base flood (1%-annual-chance flood) and are labeled on flood maps as zones starting with the letters A or V.</p> <p>According to Federal Emergency Management Agency's Flood Insurance Rate Maps (FIRM) for the proposed project areas, the Project Site is within unshaded Zone X (Area of minimal Flood Hazard) (FEMA 2012). FEMA FIRM map panels for the proposed Project (<a href="https://msc.fema.gov/portal/home">https://msc.fema.gov/portal/home</a>):</p> <ul style="list-style-type: none"> <li>• <b>06059C0151J</b>, effective December 3, 2009 (This map panel includes coverage of 300, 307, 312, 314 Baker Street)</li> <li>• <b>06059C0132J</b>, effective December 3, 2009 (This map panel includes coverage of 323 Baker Street)</li> </ul> <p>Thus, the Project Site is designated as an area outside the 100- and 500-year flood zones, and the flood potential for the Project Site is minimal. According to the National Flood Insurance Program's (NFIP) Community Status Book (<a href="https://www.fema.gov/flood-insurance/work-with-nfip/community-status-book">https://www.fema.gov/flood-insurance/work-with-nfip/community-status-book</a>), the Project Site is in Community ID 060229#, which is a participating community in the NFIP. However, because no structures or insurable properties are within a Special Flood Hazard Area, flood insurance is not required under the NFIP. Although flood insurance may not be mandatory in this instance, HUD recommends that all insurable structures maintain flood insurance under the NFIP. The Project is in compliance with flood insurance requirements (see <b>Attachment 7; ERR 3</b>).</p>
<b>STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 &amp; 58.5</b>		
<p><b>Clean Air</b></p> <p>Clean Air Act, as amended, particularly section 176(c) &amp; (d); 40 CFR Parts 6, 51, 93</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>    <input type="checkbox"/></p>	<p>The Clean Air Act was implemented to remedy the damaging effects that bad air quality can have on human health and the environment and was most recently revised in 1990, when major changes were enacted. The Clean Air Act is administered by the EPA, which sets National</p>

		<p>Ambient Air Quality Standards (NAAQS). NAAQS are limits on certain “criteria” air pollutants, including limits on how much of the pollutants can be in the air anywhere in the U.S. Geographic areas that are in compliance with the NAAQS are called “attainment areas,” while areas that do not meet the standards are called “nonattainment” areas. Areas that were previously designated as nonattainment areas but have now met the standard (with EPA approval of a suitable air quality plan) are called “maintenance” areas.</p> <p>The proposed Project falls under the jurisdiction of the South Coast Air Quality Management District (SCAQMD) within the South Coast Air Basin. Orange County is currently in a nonattainment zone for federal ozone (8-hour ozone) and particulate matter from greenhouse gases (fine particulate matter [PM<sub>2.5</sub>]). Federal ozone in Orange County has been classified as extreme, and PM<sub>2.5</sub> has been classified as serious (EPA 2024). According to NEPAassist, which uses the EPA’s Office of Air and Radiation data, Orange County is in a maintenance zone for coarse particulate matter (PM<sub>10</sub>), carbon monoxide (CO), and nitrogen dioxide (NO<sub>2</sub>). Orange County is in attainment for all other criteria pollutants. To meet HUD air quality guidelines, the proposed Project must follow the State Implementation Plan, which describes how an area will meet the NAAQS. State Implementation Plan guidelines require the proposed Project to keep its criteria pollutant emissions below SCAQMD’s significance thresholds (SCAQMD 2023).</p> <p>The Project Site’s location close to public transportation is consistent with regional efforts to improve transit availability. Resident use of adjacent public transit options would reduce the number of single occupancy commuter vehicles on the road, reducing the amount of emissions (PM<sub>2.5</sub>) associated with motor vehicle travel. By developing affordable housing consistent with the growth anticipated by the City’s General</p>
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		<p>Plan and existing zoning and land use designations, the proposed Project is in compliance with the Regional Air Quality Strategy, State Implementation Plan, and Air Quality Management Plan for this locality.</p> <p>Air quality at the Project Site could be negatively impacted by fugitive dust (PM<sub>10</sub>) and other particulate air pollutants (PM<sub>2.5</sub>) released during construction-related activities, such as land clearing and grading. Exhaust emissions (oxides of nitrogen [NO<sub>x</sub>] and CO) released by heavy construction vehicles could also temporarily impact air quality. Adverse impacts to air quality during construction would be managed by implementing mitigation measures for fugitive dust control in compliance with SCQAMD Rule 403. This guideline identifies measures to reduce fugitive dust that are required to be implemented at all construction sites within the South Coast Air Basin (SCAQMD 2005) (Mitigation Measure <b>[MM]-AIR-1</b>; see section below for all mitigation measures).</p> <p>Estimated annual emissions for the proposed Project were calculated using CalEEMod and include carbon dioxide (CO<sub>2</sub>), Methane (CH<sub>4</sub>), Nitrous Oxide (N<sub>2</sub>O), and Refrigerants. As shown in Table 1.1 of the Detailed Air Quality Report, per preliminary project details, it was assumed that construction of the Project would begin in June 2024 and would be completed by 2025. The construction schedule used in the analysis represents a “worst-case” analysis scenario since emissions factors for construction equipment decrease as the analysis year increases due to improvements in technology and more stringent regulatory requirements. The estimated annual construction related GHG emissions, amortized over 30 years, is 9.72 MTCO<sub>2</sub>e/yr (metric tons of GHG emissions per year). A screening threshold of 3,000 MTCO<sub>2</sub>e/yr was used to determine if additional analysis is required is an acceptable approach for small projects (AQMD, 2008). This approach is a widely accepted screening threshold used by</p>
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		<p>numerous cities in the South Coast Air Basin and is based on the SCAQMD staff's proposed GHG screening threshold for stationary source emissions for non-industrial projects, as described in the SCAQMD's Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans.</p> <p>The proposed Project would generate a total of approximately 406.29 MTCO<sub>2</sub>e/yr. This estimate includes amortized construction emissions. Based on guidance from the SCAQMD, if a non-industrial project would emit less than 3,000 metric tons of GHGs per year, then the project is not considered a substantial GHG emitter and the GHG impact is less than significant, requiring no additional analysis and no mitigation. Therefore, the proposed Project would remain within regional and national emissions thresholds and is in compliance with the Clean Air Act (<b>see Attachment 8; see ERR 4</b>).</p>
<p><b>Coastal Zone Management</b></p> <p>Coastal Zone Management Act, sections 307(c) &amp; (d)</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The Coastal Zone Management Act Section 1453, Definitions, defines the term "coastal zone" as "...the coastal waters (including the lands therein and thereunder) and the adjacent shorelands (including the waters therein and thereunder), strongly influenced by each other and in proximity to the shorelines of the several coastal states, and includes islands, transitional and intertidal areas, salt marshes, wetlands, and beaches..." and extending "...inland from the shorelines only to the extent necessary to control shorelands, the uses of which have a direct and significant impact on the coastal waters, and to control those geographical areas which are likely to be affected by or vulnerable to sea level rise."</p> <p>According to the California Coastal Commission's Coastal Zone boundary maps (<a href="https://www.coastal.ca.gov/maps/czb/">https://www.coastal.ca.gov/maps/czb/</a>), the Project Site is not within the Coastal Zone (CCC 2019). Therefore, the proposed undertaking is in compliance with HUD's Coastal Zone Management Act regulations, and no mitigation is warranted. The Project is in compliance with the Coastal Zone Management Act (see</p>

		<b>Attachment 9; ERR 5).</b>
<b>Contamination and Toxic Substances</b>  24 CFR Part 50.3(i) & 58.5(i)(2)	Yes    No <input checked="" type="checkbox"/> <input type="checkbox"/>	<p>HUD policy, as described in Section 50.3(i) and Section 58.5(i)(2), states the following:</p> <p>(1)... all property proposed for use in HUD programs be free of hazardous materials, contamination, toxic chemicals and gasses, and radioactive substances, where a hazard could affect the health and safety of occupants or conflict with the intended utilization of the property.</p> <p>(2) HUD environmental review of multifamily and non-residential properties shall include evaluation of previous uses of the site and other evidence of contamination on or near the site, to assure that occupants of proposed sites are not adversely affected by the hazards.</p> <p>(3) Particular attention should be given to any proposed site on or in the general proximity of such areas as dumps, landfills, industrial sites, or other locations that contain, or may have contained, hazardous wastes.</p> <p>(4) The responsible entity shall use current techniques by qualified professionals to undertake investigations determined necessary.</p> <p>Sites known or suspected to be contaminated by toxic chemicals or radioactive materials include, but are not limited to, sites: (i) listed on an EPA Superfund National Priorities or the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) List, or equivalent State list; (ii) located within 3,000 feet of a toxic or solid waste landfill site; or (iii) with an underground storage tank (UST) (which is not a residential fuel tank).</p> <p>A Phase I Environmental Site Assessment (ESA) conducted by Partner Engineering, Inc. (Partner) in September 2023 did not find any recognized environmental conditions (RECs), controlled RECs, or historical RECs on the Project Site. No hazardous substances or petroleum products were observed onsite. Underground storage tanks (USTs) and aboveground storage tanks (ASTs) were not observed on the Project Site. No vapor mitigation concerns were identified. Adjoining properties were also evaluated for environmental condition in a limited adjoining property reconnaissance. No hazardous</p>



		<p>substances, petroleum products, ASTs or USTs were observed on adjacent properties, which are primarily single-family homes.</p> <p>Radon is a radioactive gas which has been identified as a human carcinogen. The EPA recommends that homeowners in areas with radon screening levels greater than 4 Picocuries per liter (pCi/L) conduct mitigation of radon gas to reduce exposure. In compliance with HUD's radon policy notice published in January 2024, indoor radon testing at the new affordable housing community will occur after construction is complete and before residents move in. If testing determines that indoor radon levels are or may be above 4pCi/L, then the Developer must document and implement a mitigation plan and provide test results to the County. The mitigation plan must identify the radon level onsite, describe the radon reduction system that will be installed, establish an ongoing maintenance plan, establish a reasonable timeframe for system implementation, and require post-installation testing by a licensed radon professional (<b>MM-TOX-1</b>).</p> <p>Assessment of asbestos-containing materials (ACMs), lead-based paint (LBP), and mold was not considered within the scope of the site visit due to the lack of structures onsite (<b>see Attachment 4; ERR 6</b>).</p>
<p><b>Endangered Species</b></p> <p>Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>The Endangered Species Act of 1973, as amended, and its implementing regulations are designed to protect and recover species in danger of extinction and the ecosystems that they depend upon. When passed, the Endangered Species Act spoke specifically to the value—tangible and intangible—of conserving species for future generations. In passing the Endangered Species Act, Congress recognized a key fact that subsequent scientific understanding has only confirmed: the best way to protect species is to conserve their habitat.</p> <p>According to HUD guidance, the environmental review of a proposed Project must consider</p>

		<p>potential impacts to endangered and threatened species and critical habitats. A No Effect determination can be made if none of the activities involved in the Project have potential to affect species or habitats.</p> <p>Due to the urban and commercial setting surrounding the Project Site, no federally listed special-status plant or wildlife species are expected to be present on site. A search of the U.S. Fish and Wildlife Service's Information for Planning and Consultation (IpaC) service (<a href="https://ipac.ecosphere.fws.gov/">https://ipac.ecosphere.fws.gov/</a>) identified five threatened or endangered species potentially occurring on the Project Site, as follows (USFWS 2020a):</p> <p><b>Birds:</b> Coastal California gnatcatcher (<i>Poliioptila californica californica</i>), Least Bell's Vireo (<i>Vireo bellii pusillus</i>)</p> <p><b>Fishes:</b> Santa Ana Sucker (<i>Catostomus santaanae</i>)</p> <p><b>Insects:</b> Monarch butterfly (<i>Danaus plexippus</i>)</p> <p><b>Reptiles:</b> Southwestern Pond Turtle (<i>Actinemys pallida</i>)</p> <p>As stated in the IPaC report and confirmed through NEPAssist mapping of the Project Site, although the general habitat ranges of these six species overlap with the project location, their critical habitat areas do not intersect with the Project Site (USFWS 2020a). Given the urbanized nature of the Project Site and scarcity of on-site native vegetation, it is unlikely that any special-status species would occur on site due to a lack of suitable habitat. Therefore, the proposed Project would not impact wildlife movement, migration, or nursery sites (see <b>Attachment 10; ERR 7</b>).</p>
<b>Explosive and Flammable Hazards</b>  24 CFR Part 51 Subpart C	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	Regulations set forth in 24 CFR Part 51 Subpart C require HUD-assisted projects to be separated from hazardous facilities that store, handle, or process hazardous substances by a distance

		<p>based on the contents and volume of the facilities' aboveground storage tank (AST), or to implement mitigation measures. The requisite distances are necessary, because Project Sites that are too close to facilities handling, storing, or processing conventional fuels, hazardous gases, or chemicals of an explosive or flammable nature may expose occupants or end-users of a project to the risk of injury in the event of a fire or an explosion.</p> <p>Explosive or flammable hazardous materials would not be present at the Project Site, which would provide 68 affordable housing units. The Phase I ESA conducted by Partner did not identify any hazardous materials or petroleum on the Project Site, which is currently vacant. An EDR Radius Report was obtained for the proposed Project Site to identify aboveground storage tanks (ASTs) within a 1-mile radius of the project area. The report identified four sites with ASTs but did not provide details on the size and content of all ASTs listed within 1-mile of the Project Site. The CalEPA Regulated Site Portal website was then used to identify and evaluate the type and amounts of chemicals stored at each site identified as having an AST by the EDR report. Potential sites were filtered to only show aboveground petroleum storage and chemical storage facilities because both of these categories could include aboveground flammable materials storage.</p> <p>Chemicals listed for each site were compared to a list of hazardous substances provided in Appendix I to Subpart C of Part 51 (§ 51.201). Chemicals not listed in § 51.201 were considered non-hazardous. HUD's Acceptable Separation Distance (ASD) Assessment Tool was used to calculate the acceptable separation distance between the Project Site and the CalEPA sites that contained hazardous materials. All sites were farther away than the minimum ASD distance required by HUD. Therefore, the proposed Project would not expose residents or the surrounding community to dangerous</p>
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		explosive or flammable hazards ( <b>see Attachment 11; ERR 8</b> )
<b>Farmlands Protection</b>  Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>Regulations set forth in 24 CFR Part 51 Subpart C require HUD-assisted projects to be separated from hazardous facilities that store, handle, or process hazardous substances by a distance based on the contents and volume of the facilities' aboveground storage tank (AST), or to implement mitigation measures. The requisite distances are necessary, because Project Sites that are too close to facilities handling, storing, or processing conventional fuels, hazardous gases, or chemicals of an explosive or flammable nature may expose occupants or end-users of a project to the risk of injury in the event of a fire or an explosion.</p> <p>The proposed Project is in an urban setting on land designated as Urban and Built-Up Land by the California Department of Conservation. The land surrounding the Project Site is also classified as Urban. The proposed Project Site has a General Plan land use and zoning designation of Placentia Old Town. Within the Placentia Old Town land use and zoning designation, the Project Site has a sub-zoning designation of High Density Residential. The immediate neighborhood is a mixture of residential, commercial retail, and restaurant uses. Because the proposed Project would be on previously disturbed land, it would not threaten existing farmlands. Therefore, the proposed Project complies with the Farmland Protection Policy Act (<b>see Attachment 12; ERR 9</b>).</p>
<b>Floodplain Management</b>  Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	<p>The provisions of Executive Order (EO) 11988, Floodplain Management, require federal activities to avoid impacts to floodplains and to avoid direct and indirect support of floodplain development to the extent practicable. HUD's regulations in 24 CFR Part 55 outline HUD's procedures for complying with EO 11988.</p> <p>According to Federal Emergency Management Agency's Flood Insurance Rate Maps (FIRM) for the proposed Project areas, the Project Site is within unshaded Zone X (0.2% Annual Chance</p>

		<p>Flood Hazard) (FEMA 2012). FEMA FIRM map panels for the proposed Project (<a href="https://msc.fema.gov/portal/home">https://msc.fema.gov/portal/home</a>):</p> <ul style="list-style-type: none"> <li>• <b>06059C0151J</b>, effective December 3, 2009 (This map panel includes coverage of 300, 307, 312, 314 Baker Street)</li> <li>• <b>06059C0132J</b>, effective December 3, 2009 (This map panel includes coverage of 323 Baker Street)</li> </ul> <p>Thus, the Project Site is designated as an area outside the 100- and 500-year flood zones, and the flood potential for the Project Site is minimal. Because the Project Site does not occur within a floodplain, the Project is in compliance with Executive Order 11988 (<b>see Attachment 7; ERR 10</b>).</p>
<p><b>Historic Preservation</b></p> <p>National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>    <input type="checkbox"/></p>	<p>The National Historic Preservation Act (NHPA) (16 USC 470 et seq.) directs each federal agency, and those tribal, State, and local governments that assume federal agency responsibilities, to protect historic properties and to avoid, minimize, or mitigate possible harm that may result from agency actions. The review process, known as Section 106 review, is detailed in 36 CFR Part 800. Early consideration of historic places in project planning and full consultation with interested parties are key to effective compliance with Section 106. The State Historic Preservation Officer (SHPO) and/or Tribal Historic Preservation Officer (THPO) are primary consulting parties in the process.</p> <p>After a waiting period of approximately 6 weeks, SHPO failed to respond to the County's request for a finding or determination. Pursuant to 36 Code of Federal Regulations (CFR) 800.3(c)(4), SHPO did not respond within 30 days of receiving the County's request for a finding or determination. As a result, the County's consultation requirements with the SHPO are complete. Construction activities would cease, and an archaeologist would be contacted in the event that historic or cultural resources are discovered on the Project Site during</p>

		<p>construction ground-disturbing activities (<b>MM-CUL-1</b>).</p> <p>There are no federally recognized tribes culturally affiliated with the Project Site, and there are no historic resources on site. Therefore, the proposed project is in compliance with the National Historic Preservation Act (<b>See Attachment 13; ERR 11</b>).</p>
<p><b>Noise Abatement and Control</b></p> <p>Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B</p>	<p>Yes    No</p> <p><input checked="" type="checkbox"/>    <input type="checkbox"/></p>	<p>According to HUD's noise standards set forth in 24 CFR Part 51, Subpart B, all sites whose environmental or community noise exposure exceeds the day night average sound level (DNL) of 65 decibels (dB) are considered noise-impacted areas. HUD guidance includes screening criteria to assist in evaluating a project's consistency with the foregoing standard. Pursuant to HUD guidance, potentially significant noise generators within the vicinity of a project include major roadways, if within 1,000 feet of a project site, railroads, if within 3,000 feet, and military or Federal Aviation Administration-regulated (FAA) airfields, if within 15 miles. Documentation that a project is not within the applicable distances to the foregoing noise generators demonstrates compliance with HUD's noise standard. If within the aforementioned distance, a project may show the noise level is at or below 65 dB to demonstrate consistency with the Noise Control Act of 1972.</p> <p>Dudek prepared a <i>Noise Analysis Summary</i> (Noise Memo) for the proposed Project in April 2024. Dudek conducted a round of initial noise modeling, long-term (24-hours or more duration) noise measurements, and subsequent detailed noise modeling of the Project Site. The primary noise sources for the site include an active rail line approximately 30 feet to the south and traffic generated long Melrose Street 90 feet to the west and Crowther Avenue about 350 to the north of the project area.</p> <p>HUD's noise standards may be found in 24 CFR Part 51, Subpart B (CFR 2013). Exterior uses with a day night average sound level (DNL) of 65 dBA (A-</p>

		<p>weighted decibels) or less are considered normally acceptable. Sites at which the environmental or community noise exposure exceeds 65 decibels DNL are considered noise-impacted areas. For new construction proposed in high noise areas, grantees shall incorporate noise attenuation features to the extent required by HUD environmental criteria and standards contained in Subpart B (Noise Abatement and Control) of 24 CFR Part 51. The "Normally Unacceptable" noise zone includes community noise levels from above 65 decibels to 75 decibels. Approvals in this noise zone require a minimum of 5 dB additional sound attenuation for buildings having noise sensitive uses if the day-night average sound level is greater than 65 dBA but does not exceed 70 dBA, or a minimum of 10 decibels of additional sound attenuation if the day-night average sound level is greater than 70 dBA but does not exceed 75 dBA. Locations in excess of 75 dBA DNL are categorized as being in an "Unacceptable" noise zone. According to HUD regulations, a project cannot be in a location with "unacceptable" noise exposure without the approval of the Responsible Entity.</p> <p>An initial noise analysis of rail and traffic noise from Melrose Street and Crowther Avenue carried out using HUD's DNL Calculator indicated that worst-case exterior building façade noise levels would be approximately 76 dBA DNL. Given these relatively high levels, it was decided that a confirmation of onsite noise using a series of long-term noise measurements would be beneficial. The location of the noise measurement microphone can be seen in Figure 3 of the Noise Memo. Two separate long-term (LT) noise measurements (LT-1 and LT-2) were conducted on-site from January 25 - 26, 2024 and from January 30 – 31, 2024. During the LT-1 noise measurements (conducted January 25 - 26, 2024), technical difficulties resulted in slightly less than 24 hours of consistent noise level data being collected. During the LT-2 noise measurements (conducted January 30-31, 2024), a more robust total of 32.5 hours of continuous noise monitoring data was collected onsite. The measured noise level, when</p>
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		<p>expressed in terms of the 24-hour weighted average Day-Night Level (DNL) noise metric, was 75.3 dBA DNL. Therefore, this confirms– along with the HUD DNL Calculator model - that the onsite noise level at the Project’s southern façade is currently in the “unacceptable” range. Additionally, it is likely that passenger and freight rail traffic on the rail line to the south will increase in the future, so these noise levels can be expected to increase a few decibels (an increase of approximately 3 dB is likely a good conservative estimate). Thus, future combined (rail plus traffic) noise is estimated to be approximately 78 dBA DNL at the Project’s southern façade.</p> <p>An analysis of noise levels at the proposed outdoor amenity areas (in particular the 5<sup>th</sup>-floor sky deck) was conducted using Cadna/A®. Cadna/A® is a computer program for the calculation and assessment of noise levels from construction activities, industrial facilities and other noise sources. The program allows for input of all pertinent features (such as terrain or structures) that affect noise, resulting in a highly accurate estimate of existing and future noise levels. It was conservatively assumed that the future noise level from the rail line would be 78 dBA DNL at ground level of the southern façade of the proposed building (approximately 2.5 decibels higher than the measured noise level), to account for increases in freight and passenger rail traffic in the future. The program also accounts for the shielding provided by the 5<sup>th</sup>-floor building structure immediately to the south of the sky deck but does not assume any shielding to the west (i.e. the sky deck’s western parapet). The resulting noise level at the worst-case outdoor amenity area (near the southwestern edge of the sky deck) was 64.7 dBA DNL. At the next-nearest outdoor amenity area with a rail noise exposure, at the 2nd-level podium deck, the exterior noise level would be approximately 58 dBA DNL. Thus, the estimated future exterior noise level at the outdoor amenity areas would not exceed the 65 dBA DNL noise standard. If additional noise</p>
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		<p>reduction is needed for the outdoor areas at a later date, clear-view glass or acrylic panels could be installed as needed.</p> <p>While ambient outdoor noise levels at the sky deck and 2<sup>nd</sup>-level podium deck would be below the HUD exterior noise threshold, noise levels at the proposed Project's southern façade would be in excess of the 75 dBA DNL threshold. Based upon modeling and measurements, future noise levels (to account for increases in freight and passenger rail service) would be approximately 78 dBA DNL. As a result, the building shell (walls, doors, windows and roof structure assemblies) would need to achieve a minimum of 33 dB noise reduction in order to meet the HUD requirement for interior living spaces of 45 dBA DNL. It will be the responsibility of the Developer (Mercy Housing) to ensure that the required HUD noise thresholds are met (<b>MM-NOI-1</b>). Prior to approval of building permits, the developer shall demonstrate that interior noise levels due to exterior noise sources will not exceed the applicable HUD standard of 45 dBA DNL. It is anticipated that compliance would be achieved by structural upgrades of wall assemblies, acoustically rated windows and doors, and air conditioning or equivalent forced air circulation to allow occupancy with closed windows. An acoustical study shall be prepared by a qualified acoustician (retained at the developer's expense) and include detailed noise reduction calculations accounting for room volumes, wall and window/door dimensions, and sound transmission class (STC) ratings (<b>MM-NOI-2</b>). Prior to issuance of the Certificate for Occupancy, the developer shall demonstrate that exterior and interior noise levels do not exceed the applicable HUD standards of 65 dBA DNL for outdoor amenity areas and 45 dBA DNL for interior living spaces by carrying out post-construction noise measurements. The noise measurements shall be conducted at a representative number of locations and rooms by a qualified acoustician. The measurements shall use ANSI Type 1 or Type 2 sound level meters and shall be carried out using methods</p>
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		<p>consistent with the practice (i.e., pre-and post-measurement validation of instrument calibration, etc.) (<b>MM-NOI-3</b>). Since the Project will be able to mitigate noise to a level within HUD thresholds and no impacts to other resources are expected to be significant, the Project will seek a waiver of the EIS requirement for projects in unacceptable noise zones per HUD's guidance on the waiver process for sites in the unacceptable noise zone per 24 CFR 51.104(b)(2)(HUD Exchange, 2024) (<b>See Attachments 14 and 15; ERR 12</b>).</p>
<p><b>Sole Source Aquifers</b></p> <p>Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>Aquifers and surface water are drinking water systems that may be impacted by development. The Safe Drinking Water Act of 1974 requires protection of drinking water systems that are the sole or principal drinking water source for an area and which, if contaminated, would create a significant hazard to public health. The EPA's Map of Sole Source Aquifer Locations (<a href="https://www.epa.gov/map-sole-source-aquifer-locations">https://www.epa.gov/map-sole-source-aquifer-locations</a>) was used to identify sole-source aquifers in the vicinity of the Project Site (EPA 2023b). There are no sole source aquifers in Orange County and the Project Site is not located within an area designated by the EPA as being supported by a sole source aquifer. There are no sole-source aquifers in Orange County. The Campo/Cottonwood Creek Aquifer, approximately 103 miles southeast of the Project Site, is the nearest sole source aquifer. As such, no impact on sole source aquifers would occur (see <b>Attachment 16; ERR 13</b>). The proposed Project is in compliance with the Safe Drinking Water Act.</p>
<p><b>Wetlands Protection</b></p> <p>Executive Order 11990, particularly sections 2 and 5</p>	<p>Yes    No</p> <p><input type="checkbox"/>    <input checked="" type="checkbox"/></p>	<p>According to the EPA, wetlands are characterized by hydrology, soils, and vegetation. The U.S. Fish and Wildlife Service's National Wetland Inventory mapper (<a href="https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper">https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper</a>) was used to identify wetlands on or near the Project Site. There are no wetlands on the Project Site. The closest wetland feature is a drainage ditch, approximately 0.32 miles southwest of the Project Site that flows south and drains into Carbon Creek,</p>

		about 0.38 miles southeast of the Project Site (USFWS 2020b). No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed on the Project Site during the site reconnaissance completed as part of the Phase I ESA. The proposed project is in compliance with Executive Order 11990 ( <b>see Attachment 17; ERR 14</b> ).
<b>Wild and Scenic Rivers</b>  Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	The Wild and Scenic Rivers Act (16 USC 1271-1287) provides federal protection for certain free-flowing, wild, scenic, and recreational rivers designated as components or potential components of the National Wild and Scenic Rivers System (NWSRS). The NWSRS was created by Congress in 1968 to preserve certain rivers with outstanding natural, cultural, and recreational values in a free-flowing condition for the enjoyment of present and future generations. The EPA's NEPAassist interactive map ( <a href="https://nepassisttool.epa.gov/nepassist/nepam.ap.aspx">https://nepassisttool.epa.gov/nepassist/nepam.ap.aspx</a> ) was used to determine the location of designated Wild and Scenic Rivers in the vicinity of the Project Site. There are no designated Wild and Scenic Rivers on the Project Site (EPA 2023a). The closest protected waterway is Deep Creek River, approximately 60 miles northeast of the Project Site. Therefore, the proposed Project is in compliance with the Wild and Scenic Rivers Act ( <b>see Attachment 18; ERR 15</b> ).
<b>ENVIRONMENTAL JUSTICE</b>		
<b>Environmental Justice</b>  Executive Order 12898	Yes    No <input type="checkbox"/> <input checked="" type="checkbox"/>	Environmental justice means ensuring that the environment and human health are protected fairly for all people regardless of race, color, national origin, or income. EO 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, requires certain federal agencies, including HUD, to consider how federally assisted projects may have disproportionately high and adverse human health or environmental effects on minority and low-income populations. Once constructed, the proposed Project would provide 68 units of affordable housing to low-income occupants including one manager's unit. The EPA's

		<p>EJScreen tool was used to evaluate environmental and demographic data for the Project Site and determine whether the project would have disproportionate adverse environmental impacts on future residents and/or the surrounding community. Environmental factors are measured using 11 environmental indicators (EI), and demographic factors are measured using seven demographic indicators (DI). An EJScreen report for the subject property was run using a 0.125-mile-radius centered around the Project Site (study area).</p> <p>According to the demographic data obtained on EJScreen, which reflects American Census Society statistics collected from 2017 through 2021, the total population living in the study area is 754. Approximately 96% of the population within the study area is non-white and 38% of the population within the study area is low income. The unemployment rate within the study area is about 3%. Results of the assessment indicate that the proposed Project would not have any aggregate environmental justice issues based on the factors evaluated by the EJScreen tool. Furthermore, the proposed Project would be a transit-oriented development, located adjacent to an active rail line that would allow residents travel greater distances without a personal vehicle. Based on the EJScreen assessment for this site, regardless of the population group served by the proposed Project, the local population would not be affected disproportionately by environmental issues. The proposed Project would have a beneficial impact to Placentia's low-income population by providing affordable housing to low-income, very low-income, and extremely low-income families (see <b>Attachment 19; ERR 16</b>). Therefore, the proposed Project is consistent with E.O. 12898 for Environmental Justice.</p>
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**Environmental Assessment Factors** [24 CFR 58.40; Ref. 40 CFR 1508.8 &1508.27] Recorded below is the qualitative and quantitative significance of the effects of the proposal on the character, features and resources of the project area. Each factor has been evaluated and documented, as appropriate

and in proportion to its relevance to the proposed action. Verifiable source documentation has been provided and described in support of each determination, as appropriate. Credible, traceable and supportive source documentation for each authority has been provided. Where applicable, the necessary reviews or consultations have been completed and applicable permits of approvals have been obtained or noted. Citations, dates/names/titles of contacts, and page references are clear. Additional documentation is attached, as appropriate. **All conditions, attenuation or mitigation measures have been clearly identified.**

**Impact Codes:** Use an impact code from the following list to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact – May require mitigation
- (4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>LAND DEVELOPMENT</b>		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	<p>The proposed Project Site encompasses four lots (five separate parcels) along Baker Street in the City of Placentia in Orange County, California. The total acreage of the Project Site is approximately 0.7 acres and all five parcels are currently vacant. The project is located on Assessor's Parcel Numbers 339-392-14 and 339-392-15 (300 and 307 Baker Street), 339-391-14 339-391-15 (312, and 314 Baker Street), and 339-392-19 (323 Baker Street). The Project Site consists of 0.77 acres total and all five parcels are currently vacant. The parcels are located at the eastern terminus of Baker Street (cul-de-sac) and are situated on the north and south sides of the street.</p> <p>The Project Site has a General Plan Land Use and zoning designation of Old Town Placentia (Old Town). Old Town has detailed regulations for development meant to, "facilitate the enhancement of the city's historic core, characterized by its small-scaled village atmosphere, shopfront architecture, mix of uses and inviting streetscapes" (City of Placentia, 2023). Within Old Town, the Project Sites are zoned as High Density Residential (HDR). The proposed Project will utilize State Density Bonus law and is eligible for up to four incentives and concessions. The proposed concessions involves a 35% increase in unit density onsite, a building height increase, a reduction in the amount of common open spaces, and a parking requirement reduction. According to the City of Placentia Land Use Element (2019), the Old Town, "designation permits a</p>

		<p>mixture of housing, retail, office, and/or other similar uses integrated into a walkable neighborhood and located within a half-mile of quality public transportation. Typically, this type of development is characterized by a mixture of medium-high to high density residential development (30 to 65 dwelling units/acre) and neighborhood-supporting mixed-use areas designed to be contextually appropriate in and compatible with the neighborhood or historic area.” The proposed development would comply with regulations adopted by the City in the Municipal Code Chapter 23.112 Old Town Placentia Revitalization Plan Development Standards (2017). By increasing the number of affordable housing units available in Placentia the proposed project is also consistent with the Housing Element of the City’s General Plan, which discusses increasing the availability of affordable housing as well as the development of programs to assist in the development of adequate housing to meet the needs of Extremely Low, Very Low and Low and Moderate-Income Households as goals (November 2023). Therefore, the proposed project would be in compliance with local land use and zoning designations.</p>
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	2	<p><b>Soil Suitability.</b> According to the Phase I ESA, the Project Site is situated within the Orange County Portion of the Los Angeles Coastal Plain physiographic region of California, where soils are comprised of Quaternary marine and non-marine sediments characterized as unconsolidated silt, sand, gravel, and clay. The United States Department of Agriculture (USDA) National Resources Conservation Service Web Soil Survey online database classifies soils onsite as Myford sandy loam on 2 to 9 percent slopes (Phase I ESA, 2023).</p> <p><b>Slope and Drainage.</b> Slope measurements for the Project Site were obtained through review of the 2022 United States Geological Survey (USGS) Orange, California Quadrangle 7.5-minute series topographic map as part of the Phase I ESA. According to topographic lines on the map, the Project Site slopes towards the west-northwest and is located at approximately 320 feet above mean sea level (MSL).</p> <p><b>Erosion and Stormwater Runoff.</b> The Project Site currently consists of five vacant land parcels. As a result, the stormwater is removed from the property primarily through ground infiltration. No drywells were observed on the Project Site during the Phase I ESA site visit. Following development of the proposed Project, erosion due to stormwater runoff onsite would be minimized by the lack of exposed soils. Overall runoff on site would decrease because the proposed Project would include greenspaces, which are currently absent from the Project</p>

		<p>Site. Water would flow into stormwater drains on the adjoining streets and public rights-of-way, which are connected to the municipal owned and maintained stormwater system. Review of the Project Site using Google Earth showed one storm drain at the terminus of Baker Street. The potential presence of other storm drains along Baker Street was obscured by parked cars.</p> <p>Project construction would include ground disturbance, which could result in increased potential for erosion. The State Water Resources Control Board (SWRCB) has implemented a National Pollutant Discharge Elimination System (NPDES) Construction General Permit for the State of California for projects disturbing 1 or more of acres of soil, requiring dischargers to obtain coverage under the General Permit, file a Notice of Intent (NOI), and prepare a stormwater pollution prevention plan (SWPPP) prior to commencement of construction. Because the project footprint is greater than 1 acre, it would be subject to the NPDES permit requirements for construction site stormwater discharges and would comply with those requirements. A SWPPP is required to be prepared and implemented under these requirements, which includes appropriate erosion-control and water-quality-control best management practices (BMPs) during site preparation, grading, construction, and post-construction. Implementation of the SWPPP for the Project would minimize short-term impacts related to erosion and stormwater runoff. Therefore, the Project would not have adverse impacts related to erosion and stormwater runoff.</p>
Hazards and Nuisances including Site Safety and Noise	3	<p><b>Hazardous Materials.</b> Explosive or flammable hazardous materials would not be present at the Project Site, which would provide 68 affordable housing units (including one manager's unit). The Phase I ESA conducted by Partner did not identify any hazardous materials or petroleum on the Project Site or adjoining properties.</p> <p><b>Site Safety.</b> The proposed Project would not create a risk of explosion, release of hazardous substances, or other dangers to public health. The Project Site is not near any hazardous operations. The Project would provide a safe place for employees and residents.</p> <p>Although no site safety hazards or nuisances are present at the site, it is possible that during construction of the Project, construction traffic, noise and dust could be considered a nuisance to the construction crew or immediate neighbors. As discussed in the Air Quality and Stormwater sections above, BMPs and mitigation measures would be implemented to prevent health and safety risks to construction workers and</p>

	<p>neighbors.</p> <p><b>Noise.</b> Construction of the Project would generate noise associated with the operation of heavy construction equipment and construction-related activities in the vicinity of the Project Site. This would result in temporary, intermittent increases in ambient noise levels which would fluctuate depending on the particular construction phase. Construction noise would comply with thresholds outlined in Chapter 9, Noise Element, of the City’s General Plan. Furthermore, pursuant to Division 6, Noise Control, of the Orange County, CA Code of Ordinances, noise associated with construction is exempt from the provisions of the noise ordinance, provided that activities take place between the hours of 7:00 a.m. and 8:00 p.m. on any day except for Sunday or a federal holiday (Orange County, 2024). The Project would not require nighttime construction or construction on weekends or holidays.</p> <p>Noise generated from project operation would be required to comply with City and County noise standards. Operation of the Project would result in a residential use on the Project Site. Operational noise would result from project-generated traffic and use of the outdoor areas on site by future project occupants. Operation of the Project would not result in substantial generation of noise and would generally be similar to and consistent with existing uses in the project vicinity and would not be distinct from the ambient noise environment created by surrounding uses. As stated in the Noise section above, the exterior noise levels at the Project’s southern façade would exceed HUD’s exterior noise threshold of 65 dBA DNL. Therefore, the Project’s building shell, including windows, doors, walls, and the roof, would need to provide approximately 33 dB of noise attenuation to meet HUD’s interior noise threshold of 45 dBA DNL. It would be the responsibility of the developer, Mercy Housing, to implement mitigation into the project’s building materials so that HUD’s thresholds are met (<b>MM-NOI-1</b>). It is anticipated that compliance would be achieved by structural upgrades of wall assemblies, acoustically rated windows and doors, and air conditioning or equivalent forced air circulation to allow occupancy with closed windows. An acoustical study shall be prepared by a qualified acoustician (retained at the developer’s expense) and include detailed noise reduction calculations accounting for room volumes, wall and window/door dimensions, and sound transmission class (STC) ratings (<b>MM-NOI-2</b>). Prior to issuance of the Certificate for Occupancy, the developer shall demonstrate that exterior and interior noise</p>
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		<p>levels do not exceed the applicable HUD standards of 65 dBA DNL for outdoor amenity areas and 45 dBA DNL for interior living spaces by carrying out post-construction noise measurements. The noise measurements shall be conducted at a representative number of locations and rooms by a qualified acoustician. The measurements shall use ANSI Type 1 or Type 2 sound level meters and shall be carried out using methods consistent with the practice (i.e., pre-and post-measurement validation of instrument calibration, etc.) <b>(MM-NOI-3)</b>. Complete details on noise monitoring, modeling, and results are provided in the Noise Analysis Summary completed by Dudek in April 2024 <b>(see Attachment 14)</b>.</p>
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Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>SOCIOECONOMIC</b>		
Employment and Income Patterns	1	<p>Project construction would generate a limited number of temporary construction jobs, and operation would generate a nominal number of permanent jobs (e.g., management, clerical, and janitorial jobs), which could result in a minor increase in per-capita income. Construction activities could result in direct economic effects related to increased spending on construction materials, equipment, and services. The magnitude of the economic benefits of construction spending to the City's economy would depend on the proportion of employment, goods, and services procured from local residents and businesses, and would likely have a relatively minor benefit on the City's economy.</p>
Demographic Character Changes, Displacement	2	<p>The proposed Project would have an overall beneficial impact on the City of Placentia by converting the currently vacant parcels, into affordable housing with access to social services and amenities for residents. Details on the robust social services provided to residents can be found in the Placentia Baker Street Social Services Plan <b>(Attachment 1)</b>. Because design of the proposed Project would be consistent with the City's Old Town Placentia Revitalization Plan, this new affordable housing community would not adversely affect community character. Site design would utilize a Spanish colonial aesthetic that reflects the City's existing architectural landscape <b>(Attachment 3)</b>.</p> <p>Residents of the new affordable housing community would likely be transplants from within the City or from neighboring areas within Orange County. Though the proposed development would be constructed adjacent to single-family homes, the Placentia Baker Street Project would remain consistent with new multi-family residential land uses being developed in the surrounding community. Other multi-family and/or affordable housing</p>

		developments under construction near the Project Site include Metro at Melrose to the east of the Project Site, which will be a six-story project with 189 affordable residential units, 1,500 square feet of commercial retail space, and 272 parking spots when completed, and the Jefferson Cenza, which will be a mixed-use development with 418 luxury multifamily units and more than 8,200 square feet of retail space. As a result, community demographics for this area of the City would not be impacted by the proposed Project. The proposed Project would increase the availability of affordable housing in the City and avoid displacement of existing businesses or residences in the area since the Project Site is currently vacant. Increasing affordable housing units supports the housing priorities detailed in the City's Housing Element by creating accommodations for low-income individuals/families as well as individuals experiencing homelessness. Overall, the proposed Project would have a positive impact on community character while remaining compliant with existing land use designations and design.
Environmental Justice	1	The proposed Project, once complete, would contribute 68 new affordable housing units to the City's housing stock. Units would be a mixture of 1-bedroom, 2-bedroom, and 3-bedroom apartments geared towards individuals and families exiting homelessness. Of the 68 total units, 18 apartments (26.5%) would be reserved as PSH units for formerly homeless households. Construction of transitional and supportive housing for people exiting homelessness supports objectives discussed in the City's Housing Element. Furthermore, situating the proposed project near high-quality public transit (the Project would be constructed adjacent to a TOD area), and inclusion of social services onsite would support future residents' journey towards independence and self-sufficiency. As a result, the proposed Project would have a long-term beneficial impact to the City's minority and/or low-income populations by providing affordable housing opportunities to individuals and families.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>COMMUNITY FACILITIES AND SERVICES</b>		
Educational and Cultural Facilities	2	<p>Given the availability of educational institutions in the area, adverse impacts to schools are not anticipated.</p> <p>The Project is near multiple educational facilities, as follows:</p> <ul style="list-style-type: none"> <li>• Saint Joseph Catholic School (Placentia), about 1.1 miles northeast of the proposed Project Site</li> <li>• Valencia High School, approximately 1.1 miles northeast of the proposed Project Site</li> </ul>

		<ul style="list-style-type: none"> <li>• Ruby Drive Elementary School, about 1.3 miles north of the proposed Project Site</li> <li>• Kraemer Middle School, approximately 1.4 miles northeast of the proposed Project Site</li> <li>• John O. Tynes Elementary School, about 1.4 miles east of the proposed Project Site</li> <li>• California State University, Fullerton, approximately 1.1 miles north of the proposed Project Site</li> </ul> <p>Cultural facilities include publicly accessible buildings, structures, and establishments that are used primarily for the performance, exhibition, or benefit of arts and heritage activities, including, but not limited to, performing arts, visual arts, heritage and cultural endeavors. Numerous cultural facilities would be accessible to project occupants in the immediate project area and beyond within the City of Placentia, including cinemas, galleries, libraries, museums, theaters, and stadiums.</p> <p>Cultural facilities near the Project Site include the Hallberg Theatre approximately 1.8 miles north of the project area and the Museum of Teaching and learning approximately 2.4 miles west of the Project Site. The Richard Nixon Library &amp; Museum located at 18001 Yorba Linda Blvd in Yorba Linda is about 4.5 miles northeast of the Project Site. The Project would result in an incremental increase in demand for cultural facilities. However, as an affordable housing project, the Project would be expected to serve existing area residents by addressing existing unmet needs for rental assistance in the project area, rather than result in an influx of new residents. Furthermore, due to the relatively small project size, any incremental increase in demand would not exceed the capacity of existing facilities. There are adequate cultural facilities in the City and surrounding areas of the County to accommodate any potential increased usage generated by the Project. Impacts to educational and cultural facilities would be less than significant.</p>
Commercial Facilities	2	No adverse impacts to nearby commercial facilities are anticipated. The Project is primarily bordered by residential and uses and transit ways. According to the Phase I ESA, the closest commercial facilities to the Project Site are at 226-230 Santa Fe Avenue, on the opposite side of Melrose Street. Construction of affordable housing could result in an incremental beneficial impact to local businesses since placing residents in more affordable housing provides more disposable income for spending on non-housing related goods and services.
Health Care and Social Services	2	Adverse impacts to healthcare and social services are not anticipated due to the relatively small size of the project and availability of service providers near the Project Site.

		<p>The Project Site is near numerous healthcare facilities, including the following:</p> <ul style="list-style-type: none"> <li>• Concentra Urgent Care at 640 South Placentia Avenue, Placentia, California 92870, approximately 1 mile southwest of the proposed Project Site</li> <li>• Kaiser Permanente Orange County–Anaheim Medical Center at 3440 East La Palma Avenue, Anaheim, California 92806, approximately 3.1 miles southeast of the proposed Project Site</li> <li>• Anaheim Regional Medical Center at 1111 West La Palma Avenue, Anaheim, California 92801, approximately 6 miles southwest of the proposed Project Site</li> <li>• Placentia–Linda Hospital at 1301 North Rose Drive, Placentia, California 92870, about 3.1 miles northeast of the proposed Project Site</li> <li>• St. Jude Medical Center at 101 East Valencia Mesa Drive, Fullerton, California 92835, about 4.7 miles northwest of the proposed Project Site</li> </ul>
Solid Waste Disposal / Recycling	2	<p>Solid waste disposal at the Project Site would be provided by Republic Services, located at 1131 North Blue Gum Street, Anaheim, California 92806. The City of Placentia contracts with Republic Services to provide weekly residential, multifamily, and commercial waste collection services. According to the City’s webpage, waste collection at the proposed Project Site would occur on Wednesdays (City of Placentia, 2024). Republic Services provides free curbside pickup of large and bulky items for single-family residents up to three times per year (with up to 10 items per pickup) (Republic Services, 2023). Additional information about acceptable items for pickup are provided on both the City of Placentia and Republic Services websites. All waste generated during the construction and operational phases would be properly disposed of and recycled where possible. The amount of solid waste generated by the proposed Project during the construction and operational phases would be a fraction of the throughput taken in by Republic Services daily. Adverse impacts from solid waste disposal associated with the proposed Project are not anticipated.</p>
Waste Water / Sanitary Sewers	2	<p>The City of Placentia operates and maintains 84 miles of gravity sanitary sewer pipelines that serve the majority of parcels within the 6.6 square mile City limits. The City’s wastewater collection system conveys untreated wastewater to the Orange County Sanitation District’s (OCSD) trunk sewer system via 35 separate connections. OCSD conveys, treats, and disposes of the City’s wastewater flows via OCSD treatment plants (City of Placentia 2023b). According to the OCSD’s Overview and Compliance</p>

		document, the OCSD operates and maintains two treatment plants, Reclamation Plant No. 1 and Treatment Plant No. 2, as well as 552 miles of collection system sewers and 17 outlying pump stations. Treated wastewater is discharged into the Pacific Ocean in strict and consistent compliance with state and federal requirements, as set forth in OCSD's National Pollutant Discharge Elimination System Permit, with the exception of approximately 8.45 million gallons per day that is reclaimed at facilities operated by the Orange County Water District (OCSD 2022). The Project would connect to existing wastewater and sanitary sewer facilities. The Project does not include the construction or use of a septic system. The proposed Project would not require construction of additional sewage infrastructure. Adverse impacts to wastewater systems and sanitary sewers servicing the Project Site are not anticipated.
Water Supply	2	According to the City's website, Golden State Water (GSW) Company is responsible for providing a majority of the City of Placentia's residential water service. Yorba Linda Water District (YLWD) provides the remaining portion of the City's residential water services. GSW provides water services to approximately 15,500 customers. Water delivered to customers in the Placentia–Yorba Linda system is a blend of groundwater pumped from the Orange County Groundwater Basin and imported water from the Colorado River Aqueduct and the State Water Project (imported and distributed by the Metropolitan Water district of Southern California) (GSW 2023). YLWD obtains some of their water locally through wells located within 1 mile of their headquarters at 1717 E. Miraloma Avenue, Placentia, California 92870. The wells tap an underground aquifer that underlies most of northern Orange County known as the Orange County Groundwater Basin. Approximately 45% of YLWD's drinking water is purchased from the Municipal Water District of Orange County, which obtains water from the Metropolitan Water District of Southern California (YLWD 2023). The Project would connect to existing water infrastructure and would result in an incremental demand for water. Adverse impacts to the City's water supply are not anticipated.
Public Safety - Police, Fire and Emergency Medical	2	<p>The Placentia Police Department provides law enforcement services to the City of Placentia. The Placentia Police Department's offices are located at 401 East Chapman Avenue, Placentia, California 92870, approximately 1.2 miles east of the Project Site.</p> <p>The proposed Project Site is located near three fire stations in the cities of Placentia, Fullerton, and Anaheim in Orange County. Anaheim Fire Station 5 is the closest fire station to the Project Site and is at 2540 E. La Palma Avenue, Anaheim California</p>

		<p>92806, approximately 1.4 miles southwest of the Project Site. Placentia Fire and Life Safety Station 1, approximately 0.5 miles northeast of the Project Site at 110 South Bradford Avenue, Placentia, California 92870, could also provide emergency services. Finally, Fullerton Fire Department Station 3, about 1.9 miles west of the proposed Project Site could administer emergency services if needed.</p> <p>The proposed Project would represent a shift in in demand for police, fire, and emergency medical services from nearby areas since the proposed project would attract residents from the surrounding community. Additionally, the proposed Project would be required to comply with all applicable codes for fire safety and emergency access. Therefore, the Project would not have adverse impacts on public safety.</p>
Parks, Open Space and Recreation	2	<p>Public recreational spaces in proximity to the Project Site include the following:</p> <ul style="list-style-type: none"> <li>• Santa Fe Park at 550 W Santa Fe Ave, Placentia, CA 92870, about 0.2 miles west of the proposed Project Site</li> <li>• Richard Samp Park at 600 Loyola Dr, Placentia, CA 92870, approximately 1.6 miles northeast of the proposed Project Site</li> <li>• Kraemer Memorial Park at 201 Bradford Avenue, Placentia, California 92870, approximately 1 mile north of the proposed Project Site</li> <li>• Chapman Park at 2515 San Carlos Drive, Fullerton, California 92831, about 1.6 miles east of the proposed Project Site</li> <li>• Acacia Park at 1636 Fullerton Creek Drive, Fullerton, California 92831, about 2.9 miles northwest of the proposed Project Site</li> </ul> <p>The Project would result in an incremental increase in demand for public parks that could be absorbed by existing open spaces near the Project Site. Site plans for the proposed Project include a shared outdoor courtyard and sky deck where residents can enjoy the outdoors without visiting surrounding parks. Therefore, the Project would not have adverse impacts on parks, open space, and recreation.</p>
Transportation and Accessibility	2	<p>Pre-existing urban development and readily available public transit near the Project Site would mitigate transportation and accessibility issues associated with the project, such as potential parking issues and traffic. The proposed Project Site is situated adjacent to the planned Placentia Metrolink Station that will serve 91 rail line, which services Los Angeles and Riverside Counties. The Metrolink station, once completed, will serve as a hub for the adjacent Packing House District/Transit Oriented</p>

		<p>Development District. The new Metrolink station will be located approximately 0.4 miles southeast of the Project Site, on the opposite side of the railroad tracks. The bus route closest to the proposed Project is approximately 0.4 miles north of the Project Site at the intersection of West Chapman Avenue and South Melrose Street. This station is serviced by bus lines 26 (between Fullerton and Yorba Linda) and 123 (between Goldenwest Transportation Center and Anaheim Canyon). These bus routes could take residents to stores, parks, and other amenities in neighboring cities and counties. The Project Site would include 72 total parking stalls distributed between two parking areas: a satellite parking area along Baker Street, on the opposite side of two single-family residential buildings and a parking area on the first floor of the Project Site. The satellite parking area will be fully gated with access only for residents. Both parking areas would be accessible via Baker Street. As a result, the proposed Project is not anticipated to have an adverse impact on traffic and parking in the surrounding community.</p>
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Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>NATURAL FEATURES</b>		
Unique Natural Features, Water Resources	2	The Project Site, which is composed of five currently vacant parcels, does not encompass any unique natural features. Federally protected natural resources, such as rivers, wetlands, coastal zones, and endangered species, are not present on the Project Site or adjacent properties. Therefore, the proposed Project would not result in the alteration of any waterways, unique features, or critical habitat, nor would it result in the loss of any federally listed species.
Vegetation, Wildlife	2	Although the proposed Project is within the ranges of six endangered or threatened species, none are likely to occur on site due to a lack of suitable habitat. Results from the U.S. Fish and Wildlife Service's IPaC analysis of the area similarly state that the Project Site is situated outside of critical habitat areas for the endangered or threatened species that overlap with the project area (USFWS 2020a) (see <b>Attachment 8</b> ).
Other Factors		None.

Environmental Assessment Factor	Impact Code	Impact Evaluation
<b>CLIMATE AND ENERGY</b>		

Climate Change Impacts	2	<p>Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. An expanding body of scientific research supports the theory that global climate change is currently causing changes in weather patterns, average sea level, ocean acidification, chemical reaction rates, and precipitation rates, and that it will increasingly do so in the future. Potential effects of global climate change that could adversely affect human health include more extreme heat waves and heat-related stress; an increase in climate-sensitive diseases; more frequent and intense natural disasters such as flooding, hurricanes, and drought; and increased levels of air pollution.</p> <p>As discussed above, the Project Site is not within a flood zone (<b>see Attachment 7</b>). The Project Site is not within a coastal community or low-lying area and would not be impacted by sea level rise (<b>see Figure 1</b>). The Project Site is in an urbanized area that is not subject to wildfire hazards (CAL FIRE, 2024) (<b>Attachment 20</b>). As previously discussed, the Project Site is not in an area that relies on a sole-source aquifer. No substantial issues related to air quality, soil suitability, stormwater, wastewater systems, or water supply have been identified in the preceding analyses. Thus, the Project would not lead to potential climate-change-related impacts that would substantially adversely affect residents.</p> <p>The Climate Mapping for Resilience and Adaptation (CMRA) tool (<a href="https://livingatlas.arcgis.com/assessment-tool/explore/map">https://livingatlas.arcgis.com/assessment-tool/explore/map</a>) provided by the U.S. Climate Resilience Toolkit was used to assess the impact of five common climate-related hazards, extreme heat, drought, wildfires, flooding, and coastal inundation (sea level rise), on the proposed Project Site. Analysis was conducted for the census tract is located in. Based on the results of the CMRA tool analysis, the Project Site is most susceptible to climate change impacts related to extreme heat and drought. According to the CMRA tool, this area of Orange County experiences 23.7 days where the maximum temperature exceeds 90 degrees Fahrenheit and approximately 313.1 days without precipitation annually. Though this area currently experiences temperatures greater than 100 degrees Fahrenheit approximately 1.8 days per year, this number is expected to increase to up to nearly 30 days by the end of this century (CMRA, 2024) (<b>Attachment 21</b>). HUD encourages developers to include and implement design features that address extreme heat, such as multi-pane and/or low-e coated windows, window shading, and cool roofs (<b>see Attachment 22</b>). In addition, implementation of an HVAC system would promote</p>
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		<p>a “windows-closed” scenario that would allow residents to remain comfortably indoors during heat waves. Additionally, the Project Site is not located within a census tract designated as a Disadvantaged Community according to the Climate and Economic Justice Screening Tool (CMRA, 2024).</p> <p>As stated in the transportation section above, the Project is situated adjacent to the planned Placentia Metrolink Station that will serve 91 rail line, which services Los Angeles and Riverside Counties and is located near bus route 26, which would transport future residents to areas of Yorba Linda and Fullerton. The project’s close proximity to multimodal public transit would serve to reduce the GHG emissions associated with motor vehicle travel. As described in the Air Quality section above, criteria air pollutant emissions from project construction and operation would be below the SCAQMD’s 3,000 MTCO<sub>2</sub>e/yr threshold for stationary source emissions for non-industrial projects (AQMD, 2008) (see <b>Attachment 8</b>). Based on guidance from that SCAQMD, if a non-industrial project would emit less than 3,000 metric tons of GHGs per year, then the project is not considered a substantial GHG emitter and the GHG impact is less than significant, requiring no additional analysis and no mitigation. Therefore, the proposed Project would not contribute substantially to climate change impacts.</p>
Energy Efficiency	2	<p>To obtain building permits, the Project would be required to meet the minimum energy consumption standards as outlined in the California Building Code, Title 24, 2001 Energy Efficiency Standards. The proposed Project would not involve an application for Leadership in Energy and Environmental Design (LEED) certification.</p>

**Additional Studies Performed:**

- *Phase I Environmental Site Assessment Report*, Prepared by Partner Engineering and Science, Inc., September 2023.
- *Noise Analysis Summary*, Prepared by Dudek, April 2024.

**Field Inspection** (Date and completed by):

- *Phase I Environmental Site Assessment Report*, Prepared by Partner Engineering and Science, Inc., September 14, 2023. Field inspection completed on September 14, 2023.
- *Noise Analysis Summary*, Prepared by Dudek, April 2024. Field inspection was completed on January 30-31, 2024.

**List of Sources, Agencies and Persons Consulted** [40 CFR 1508.9(b)]:

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- City of Placentia. 2023a. "Chapter 2, Land Use Element. In *City of Placentia General Plan: Rich Heritage – Bright Future*. Adopted October 1, 2019. Accessed December 2023. <https://www.placentia.org/DocumentCenter/View/8431/2-Land-Use-Updated-3?bidId=>.
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### **List of Permits Obtained:**

### **Public Outreach [24 CFR 50.23 & 58.43]:**

The Draft Environmental Assessment will be made available for public review and comment beginning on June 5, 2024 and concluding on June 24, 2024.

### **Cumulative Impact Analysis [24 CFR 58.32]:**

The proposed Project would not contribute to a significant cumulative impact under the National Environmental Policy Act because it would consist of an urban development project, consistent with the City's General Plan land use and zoning designations and would be near existing transit services. The planned Placentia Metrolink Station, which will be situated approximately 0.4 miles southeast of the proposed Project Site, would also provide convenient transit for residents to other cities within Orange County, Riverside, and Los Angeles County as well. State and local planning guidelines encourage the development of urban housing in areas served by transit and near commercial and cultural amenities because this type of development contributes less to cumulative effects on the environment in comparison to development of previously undisturbed sites in more remote locations with fewer transit connections, many of which contain native vegetation and wildlife species.

### **Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]**

Site identification has proven to be a major obstacle in providing affordable housing units. Residential sites available at reasonable cost are extremely limited, and sites that do not meet cost and land use criteria are generally eliminated as alternatives. Mercy Housing identifies potential properties for affordable housing based on feasibility, location, affordability, and ownership/site control of a potential Project Site. In addition to the developer's site selection criteria, and physical and social constraints are also considered in identifying and rejecting alternatives. Based on the developer's site selection criteria and constraints that limit identification of alternative affordable housing Project Sites, no other build alternatives are analyzed or included in this environmental document.

### **No Action Alternative [24 CFR 58.40(e)]:**

The No Action Alternative would not build any additional housing at the Project Site. There are no benefits to the physical or human environment by not taking the federal action associated with this Project. Physical impacts to the environment would occur in urban areas whether units are subsidized with federal funds or built at market rates. If an affordable project were not constructed on this site, the social benefits of providing new affordable housing opportunities on an urban infill parcel would not occur.

The proposed Project must acquire all required permits and approvals prior to construction; therefore, the proposed Project would be consistent with all land use plans, policies, and regulations for the Project Site. Not building on this site could potentially result in more housing constructed outside of the urban area in agricultural and undeveloped areas, contributing to urban sprawl, regional traffic congestion, and regional air quality issues.

### **Summary of Findings and Conclusions:**

Mercy Housing is proposing to construct a 68-unit affordable housing community that would encompass four vacant lots along Baker Street in Placentia, CA. The parcels are located at the eastern terminus of Baker Street (cul-de-sac) and are situated on the north and south sides of the street. Of the 68 total apartments, 18 units would be reserved for as permanent supportive housing (PSH) for formerly homeless households while the remaining 49 units would be reserved for individuals and families earning between 40% to 60% of the area mean income (AMI). The PSH units would include eighteen (18)

1-bedroom apartments. The remaining non-PSH apartments would include ten (10) 1-bedroom units, twenty-(2) 2-bedroom units, and nineteen (19) 3-bedroom units. The proposed Project would contribute to the increased density and availability of low-income housing in an area that would encourage multi-modal activity. The proximity of existing transit options to the Project Site would reduce long-term air emissions and energy use associated with motor vehicle travel.

Because the Project Site is within a developed urban area, the Project would be adequately served by utilities and public services. The Project would conform to all applicable federal, state, and regional regulations associated with land use compatibility, air emissions, water quality, geologic hazards, and related environmental resources addressed herein. Based on the analyses of environmental issues contained in this document, the proposed Project is not expected to have significant environmental impacts.

## **Mitigation Measures and Conditions [40 CFR 1505.2(c)]**

### *Air Quality – Fugitive Dust*

#### **MM-AIR-1**

The project shall implement the following, as applicable to the project:

- **Backfilling:** Stabilize backfill material when not actively handling, stabilize backfill material during handling, and stabilize soil at completion of activity.
- **Clearing and Grubbing:** Maintain stability of soil through pre-watering of site prior to clearing and grubbing, stabilize soil during clearing and grubbing activities, and stabilize soil immediately after clearing and grubbing activities.
- **Clearing Forms:** Use water spray, sweeping and water spray, or a vacuum system to clear forms.
- **Crushing:** Stabilize surface soils prior to operation of support equipment and stabilize material after crushing.
- **Cut and Fill:** Pre-water soils prior to cut and fill activities, and stabilize soil during and after cut and fill activities.
- **Demolition – Mechanical/Manual:** Stabilize wind-erodible surfaces to reduce dust, stabilize surface soil where support equipment and vehicles will operate, stabilize loose soil and demolition debris, and comply with Air Quality Management District Rule 1403.
- **Disturbed Soil:** Stabilize disturbed soil throughout the construction site, and stabilize disturbed soil between structures.
- **Earth-Moving Activities:** Pre-apply water to depth of proposed cuts, re-apply water as necessary to maintain soil in a damp condition and to ensure that visible emissions do not exceed 100 feet in any direction, and stabilize soil once earth-moving activities are complete.
- **Importing/Exporting of Bulk Materials:** Stabilize material while loading to reduce fugitive dust emissions, maintain at least 6 inches of freeboard on haul vehicles, stabilize material while transporting

and unloading to reduce fugitive dust emissions, and comply with California Vehicle Code (CVC) Section 23114.

- **Landscaping:** Stabilize soils, materials, slopes.
- **Road Shoulder Maintenance:** Apply water to unpaved shoulders prior to clearing, and apply chemical dust suppressants and/or washed gravel to maintain a stabilized surface after completing road shoulder maintenance.
- **Screening:** Pre-water material prior to screening, limit fugitive dust emissions to opacity and plume length standards, and stabilize material immediately after screening.
- **Staging Areas:** Stabilize staging areas during use, and stabilize staging area soils at project completion.
- **Stockpiles/Bulk Material Handling:** Stabilize stockpiled materials. Stockpiles within 100 yards of off-site occupied buildings must not be greater than 8 feet in height, or must have a road bladed to the top to allow water truck access, or must have an operational water irrigation system that is capable of complete stockpile coverage.
- **Traffic Areas for Construction Activities:** Stabilize all off-road traffic and parking areas, stabilize all haul routes, and direct construction traffic over established haul routes.
- **Trenching:** Stabilize surface soils where trencher or excavator and support equipment will operate, and stabilize soils at the completion of trenching activities.
- **Truck Loading:** Pre-water material prior to loading and ensure that freeboard exceeds 6 inches (CVC Section 23114).
- **Turf Overseeding:** Apply sufficient water immediately prior to conducting turf vacuuming activities to meet opacity and plume length standards, and cover haul vehicles prior to exiting the site.
- **Unpaved Roads/Parking Lots:** Stabilize soils to meet the applicable performance standards and limit vehicular travel to established unpaved roads (haul routes) and parking lots.
- **Vacant Land:** In instances where vacant lots are 0.10 acres or larger and have a cumulative area of 500 square feet or more that are driven over and/or used by motor vehicles and/or off-road vehicles, prevent motor vehicle and off-road-vehicle trespassing, parking, and access by installing barriers, curbs, fences, gates, posts, signs, shrubs, trees, or other effective control measures.

#### *Historic Preservation (Cultural Resources)*

##### **MM-CUL-1**

In the event that previously unidentified cultural resources are encountered during ground-disturbing activities associated with project construction, work in the immediate area must halt, and an archaeologist meeting the Secretary of the Interior's Professional Qualifications Standards for archaeology shall be contacted immediately to evaluate the find. If the discovery proves to be significant under the National Environmental Policy Act, additional work, such as data

recovery excavation, may be warranted to mitigate potential adverse effects.

## *Noise*

### **MM-NOI-1**

The proposed project would implement mitigation measures at the site to reduce interior noise levels to within the HUD threshold of 45 dBA DNL. Since exterior noise levels at the project's southern façade would be approximately 78 dBA DNL, the project's building shell (walls, doors, windows, and roof structure assemblies), would need to achieve a minimum of 33 dB noise reduction in order to meet the HUD requirement for interior noise reduction in order to meet the HUD requirement for interior living spaces. It would be the responsibility of the developer, Mercy Housing, to implement mitigation into the project's building materials so that HUD's thresholds are met.

### **MM-NOI-2:**

Prior to approval of building permits, the developer shall demonstrate that interior noise levels due to exterior noise sources will not exceed the applicable HUD standard of 45 dBA DNL. It is anticipated that compliance would be achieved by structural upgrades of wall assemblies, acoustically rated windows and doors, and air conditioning or equivalent forced air circulation to allow occupancy with closed windows. An acoustical study shall be prepared by a qualified acoustician (retained at the developer's expense) and include detailed noise reduction calculations accounting for room volumes, wall and window/door dimensions, and sound transmission class (STC) ratings.

### **MM-NOI-3:**

Prior to issuance of the Certificate for Occupancy, the developer shall demonstrate that exterior and interior noise levels do not exceed the applicable HUD standards of 65 dBA DNL for outdoor amenity areas and 45 dBA DNL for interior living spaces by carrying out post-construction noise measurements. The noise measurements shall be conducted at a representative number of locations and rooms by a qualified acoustician. The measurements shall use ANSI Type 1 or Type 2 sound level meters and shall be carried out using methods consistent with the practice (i.e., pre-and post-measurement validation of instrument calibration, etc.).

## *Contamination and Toxic Substances*

### **MM-TOX-1**

In compliance with HUD's radon policy notice published in January 2024, indoor radon testing at the new affordable housing community will occur after construction is complete and before residents move in. If testing determines that indoor radon levels are or may be above 4pCi/L, then the Developer must document and implement a mitigation

plan and provide the test results to the County. The mitigation plan must identify the radon level onsite, describe the radon reduction system that will be installed, establish an ongoing maintenance plan, establish a reasonable timeframe for system implementation, and require post-installation testing by a licensed radon professional.

### Determination:

☒ **Finding of No Significant Impact** [24 CFR 58.40(g)(1); 40 CFR 1508.27]

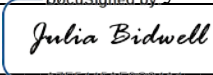
The project will not result in a significant impact on the quality of the human environment.

☐ **Finding of Significant Impact** [24 CFR 58.40(g)(2); 40 CFR 1508.27]

The project may significantly affect the quality of the human environment.

Preparer Signature:  Date: 6/3/2024

Name/Title/Organization: Suzanne Harder, Community Development Compliance and Environmental Coordinator, Orange County Housing and Community Development

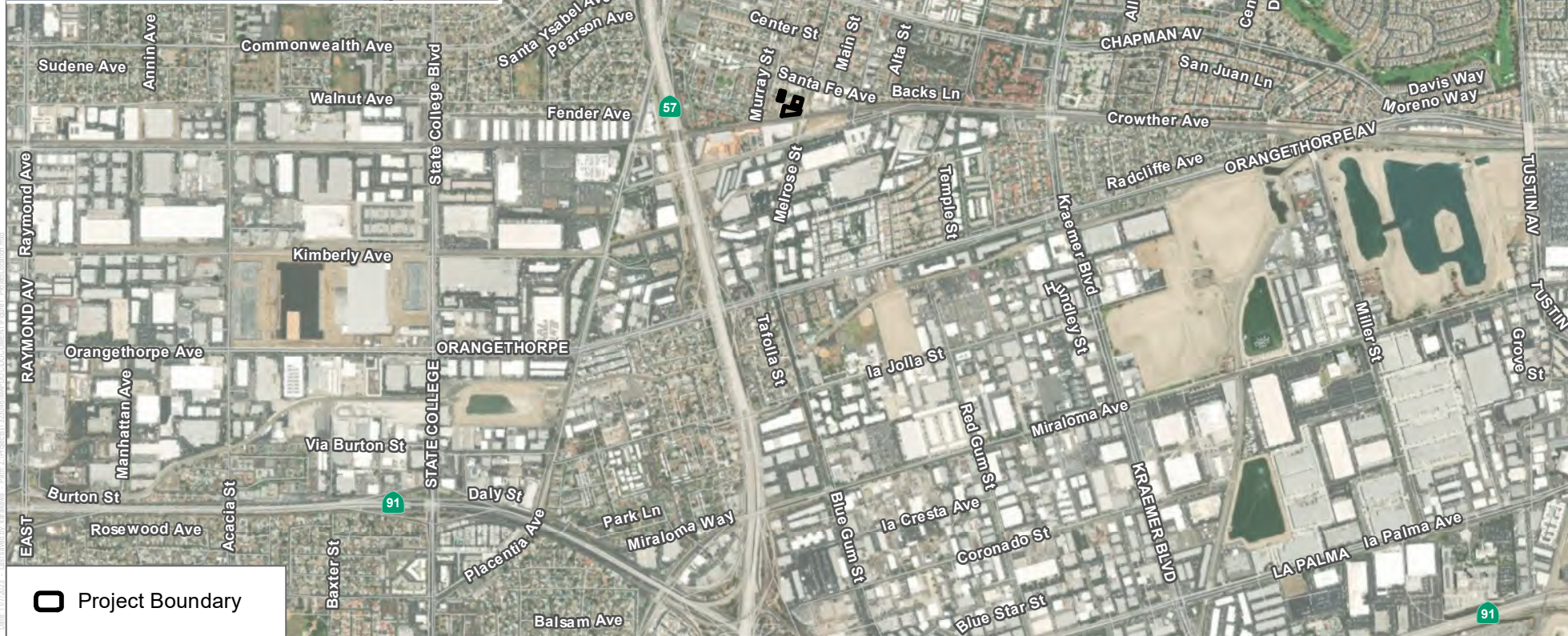
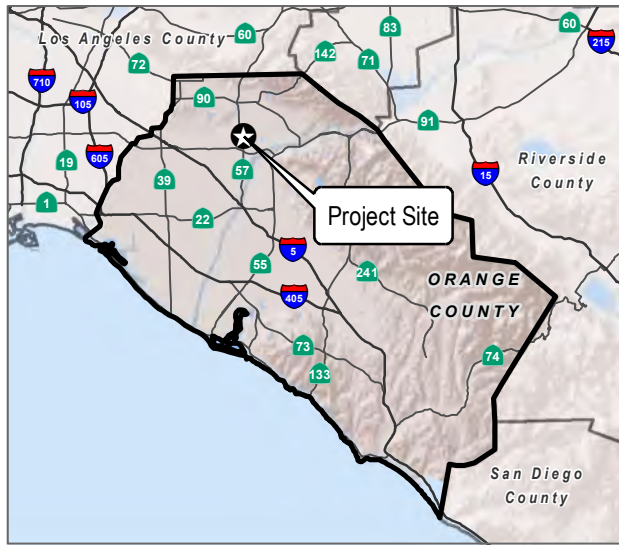
Certifying Officer Signature:  Date: 6/3/2024

Name/Title: Julia Bidwell, Orange County Housing and Community Development

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environmental Review Record (ERR) for the activity/project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).



**Figure 1. Project Location**



SOURCE: DigitalGlobe 2017

**DUDEK**



**FIGURE 1**  
Project Location  
Placentia Baker Street

## **Attachment 1. Placentia Baker Street Social Services Plan**



---

**Exhibit 4.16 Placentia Baker Street  
SOCIAL SERVICES PLAN**

This project will serve both unhoused individuals and families as well as low-income families. The permanent supportive units will have case management provided through the OCHCA for the 17 MHSA units. There will also be an on-site resident service coordinator (RSC) that will be available for all residents with a primary focus on the units not covered by case management. Mercy Housing California (MHC)'s resident services staff will work with all residents and will create programming to reflect the needs of the residents.

This project will follow an Affirmative Fair Marketing Plan that is designed for this project that will ensure appropriate outreach to populations in the apartment community and the surrounding community of Placentia. MHC and Mercy Housing Management Group (MHMG) are committed to fair housing law and do not discriminate against tenant applications based on race, color, gender, age, or religion. MHMG staff is extensively trained on fair housing law to ensure this commitment is maintained at all properties. A wait list will be created and when a vacancy arises the management team will pull the appropriate number of names from the list to fill vacancies.

The on-site services will follow Mercy Housing's family service model. There will be robust selection of educational opportunities for the residents that can include health education, nutrition and cooking, financial literacy, and youth programming. If there is a stated interest the RSC will conduct job specific training and assist residents in finding and applying for employment opportunities. Mercy Housing staff are trained to assist residents with applying for benefits and will be doing so for all residents on-site. All residents who are having housing stability issues will receive outreach from the services team.

Mercy Housing makes every effort to make services culturally-specific and linguistically appropriate. All of our staff go through cultural competency trainings as part of their orientation. They also make every effort to hire bi-lingual staff that represent the needs of the building

The RSC will meet with the residents to set goals annually.

All residents will be outreached to at the time of move in. They will be presented with all available on-site services. When issues arise, they will be referred to the appropriate services both on and off site. These referrals can come from the RSC, case managers and the property management team.

Most on-site services will be conducted Monday through Friday during normal business hours. If the need arises those hours will be changed to reflect the needs of the residents.

Most services will be provided on-site. The staff will help residents apply for travel stipends that they might be entitled to such as discounted metro passes and the use of the access program.

Mercy Housing California staff will offer tenants help in requesting reasonable accommodations for all of its programs and services so that they are equally accessible and beneficial to individuals with disabilities. Service delivery will also keep in mind special needs such as receptive and expressive language limitations, visual and hearing limitations, reading and writing limitations and will accommodate through interpreters and Braille literature, etc. as needed. At initial meetings, staff will discuss with tenants whether they have any concerns related to a disability. Agency staff are skilled and experienced in providing assistance to applicants in requesting and navigating the reasonable accommodations procedure, both internally and externally, with such entities as housing authorities and property management, and assist residents to complete necessary forms, as well as advocate on their behalf. Staff are trained to understand the differences between property reasonable accommodations versus external reasonable accommodations. These processes are reviewed at least once per year.

Eviction Prevention services are provided using a team approach that involves a Mercy Housing California Resident Services staff including case managers, RSCs and their supervisors if necessary. If rehabilitative services are needed out of the home during periods of crisis, staff will assess and place tenants in a hospital, community treatment facility or rehabilitation center until stability is regained. During this time, tenants will be provided assistance with paying their rent to retain their housing while addressing their medical, substance abuse, physical or mental health issue. Landlord/tenant mediation will be provided as well. Should relocation be warranted, participants who wish to move out of the jurisdiction will be assisted by obtaining an alternative housing plan to connect tenants with housing and supportive services in the area of relocation. Evictions will only be initiated as a last resort where there is documented evidence of a serious lease violation. All lease violations issued by management will be followed up with a check in by service staff. Mercy Housing California staff will work collaboratively with property management staff to be sensitive to the needs of the tenants and make every effort to keep the resident in housing.

Mercy Housing utilizes and Housing Support Plan (HSP), which is a collaborative effort between resident services, property management and the residents. All parties have input and responsibilities to execute the plan. The HSP is utilized for issues ranging from behavioral issues to non-payment of rent. No resident will face an eviction without prior being offered the HSP, and the VP of Property Management along with the Director of Resident services need to review all the supporting documentation and sign off before a file is sent to the legal department.

Service staff will assure that all special needs residents understand their rights in terms of transferring to less intensive supportive settings. They will work with the resident to make sure they understand the eligibility requirements.

Staff follow set guidelines in supporting tenants' desires for an application to change their project-based voucher to a tenant-based voucher and exit the project. These guidelines set the clear expectation that to do so, the client must be in good standing with the property manager for one year, be actively participating in case management, and have demonstrated the ability to establish connections with community resources. This topic is covered by the Program Manager during supervision.

The supportive units will be staffed at the required ratio as required by the funding agencies. 1.5 FTE Resident Service Coordinator will work with all units at the property. The RSC will offer direct assistance to the non-supportive units as well as help facilitate communication and information between the management team and the case managers. They will also provide or arrange educational programming for all residents as well as housing support assistance when stability issues arise. The .5 FTE activities coordinator will facilitate recreational, educational and community building activities for all residents with a special emphasis on youth programming. These ratios are in line with Mercy Housing Staffing Standards for a mixed population project.

The Resident Service Coordinator will work with all residents, with a primary focus on the non-supportive units. They help residents with service referrals when necessary, provide programming to all residents. The Activity Coordinator will plan educational, recreational and social activities for all residents of the building.

Residents will be advised of the services available on-site through marketing materials and flyers. Case managers and the RSC will provide tenants with “welcome packets” that provide information on local amenities, public transportation information, on-site activities and other “tips”. A monthly calendar will be posted in public areas advertising on-site and off-site community activities and services. In addition to these activities targeting all residents, case managers and the RSC will invite tenants individually to participate in the Tenant Council, the Tenant Newsletter, volunteer activities, and all services available on and off site. Throughout the residency, case managers will make regular attempts to gain the trust of individual tenants and encourage them to participate in services by knocking on doors, engaging in casual conversation in the common spaces, and cross-marketing of opportunities at all on-site events and activities.

Case managers and the RSC will collaborate with each other to identify individual tenants who are isolated and will make specific efforts to engage these individuals in community activities, or work to link them to services for inter-related issues. For the low-income units, the RSC will take a less assertive approach, respecting the wishes of residents who may not wish to participate in services, but still engaging them in order to promote community and reduce isolation. Nonetheless, the general information will be aimed at both audiences.

Tenants will be engaged in discussions regarding building operations during monthly community meetings. A suggestion box will also all be place in a community space enabling tenants to make comments and suggestion ways to improve the space in which they live. During these regular monthly meetings, building staff will listen to tenants and address any suggestions or concerns. If building operation changes need to take place, building staff will first present changes to tenants and gather input.

Tenants will be engaged in discussions regarding service delivery during monthly community meetings. A suggestion box will also all be place in a community space enabling tenants to make comments and suggestion ways to improve the services. During these regular monthly meetings, staff will listen to tenants and address any suggestions or concerns. If services delivery changes

are being planned, staff will first present changes to tenants and gather input. In addition, tenants will be made aware of grievance process at time of intake. The updating of individualized service plans for special needs tenants on a quarterly basis will also present as an additional opportunity for staff to obtain tenant participation in service delivery. In addition, surveys are used to tailor services to participant desires.

Social and educational programs will be developed and implemented by staff and volunteers to foster community within the development and help tenants become comfortable with the service staff. On-site activities may include movie nights, game nights, reading groups and book clubs, spiritual groups, holiday celebrations, arts and crafts, field trips, cooking classes and nutrition counseling, AA/NA style meetings, and a monthly tenant community meeting. The communal space in the building will help facilitate this programming. A monthly activities calendar will be posted in a common area at the beginning of each month. As services are planned and delivered, staff will take into account the resources that are available in the larger community and assist tenants in re-integrating back in the community. Tenants will be informed about, and encouraged to participate in, community events and services that are offered locally, in nearby recreational centers, parks, libraries, schools, colleges, health centers and community centers. Notices concerning special events in the neighborhood will be posted in prominent places on community bulletin boards so tenants can inform themselves and take advantage of local opportunities. At the time of move in, tenants will be made aware of what services, businesses, or activities are available in their new community. This will be done by the RSC for all residents, though primarily the low-income units, while the case managers will ensure their clients are able to engage in the community.

Peer supports will be utilized, these peers supports will reach out to residents at move in offering guidance and support during the transition. One of the advantages of having a mixed-population building is also the built-in peer interactions between the supportive and non-supportive tenants. The Home for Good Standards of Excellence will be adopted for all units.

Home for Good Standards for Excellence for Tenant Satisfaction will be used for all units. Tools such as the Mercy Housing Health and Wellness Assessment as well as an Activity of Daily Living assessment will be utilized to the wellbeing of the residents. We also closely track attendance for groups and community activities to gauge participation. We have a strong housing retention protocol that tracks interventions concerning lease violations and housing security. This data will primarily be collected by the on-site RSC and will be evaluated by both the RSC and their supervisors. We will utilize whatever systems are required by funding sources along with our internal database called Mercy Measures.

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**Attachment 2. Mercy Baker-Entitlement BASE**



# 312 BAKER

## ENTITLEMENT SET

NOVEMBER 16, 2023



\*THIS DESIGN IS CONCEPTUAL IN NATURE. THE INFORMATION AND NUMBERS PROVIDED ARE SUBJECT TO CHANGE,  
PENDING VERIFICATION BY CLIENT AND AUTHORITIES HAVING JURISDICTION.



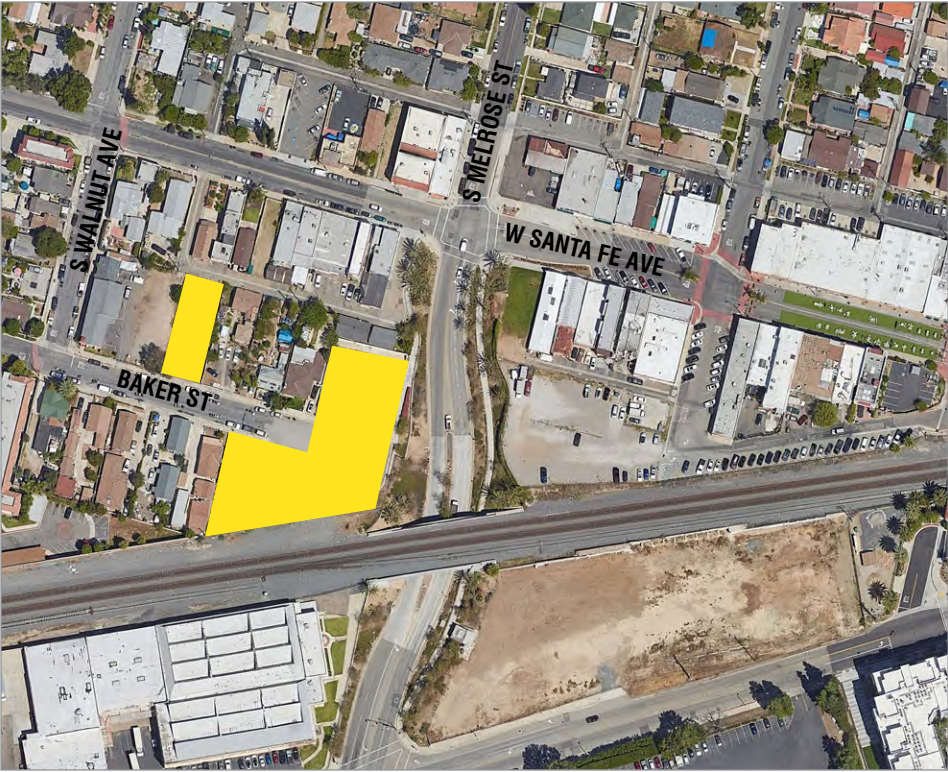


# PROJECT DESCRIPTION

Located along Baker Street and abutting S. Melrose St., the proposed project is a 100% affordable project with a total of 68 units,including a mix of 1, 2, and 3 bedrooms. Twenty of the units will be set aside for Permanent Supportive Housing (PSH). In addition, there will be a two bedroom unit strictly dedicated for an on-site property manager. The project will be providing a combination of indoor and outdoor community spaces for the residents, including play areas for children of different age groups. The outdoor courtyards are adjacent to the indoor community room and laundry room for visibility at the podium level, with a second courtyard at the highest residential level. On-site resident services are located on the ground level. Parking will be provided at the ground level within the building, along with surface stalls adjacent to the building entry and satellite site west of the project. The site is surrounded by single family homes to the west and north of the project, while the metro link runs along the south edge of the site.


The proposed architecture celebrates the pure clean forms inspired by Mission Revival. The design carries more traditional references through pitched roofs and arched openings, which highlight the main entry to the project. Locating these arches along the main entry allows the project to create hierarchy in material transitions and enhanced pedestrian scale. While the enhanced material lines the main entry of the project, the remaining building is dressed in smooth stucco with 2 assorted colors to create a top/middle/base massing. Further contrast is created in the facade with bronze windows and balconies.

# VICINITY MAP



# PROJECT TEAM


## DEVELOPER:



**Mercy Housing**  
1500 S Grand Ave. #100  
Los Angeles, CA 90015  
Contact: Ed Holder

**P: 213.743.5820**  
[www.mercyhousing.org](http://www.mercyhousing.org)  
[eholder@mercyhousing.com](mailto:eholder@mercyhousing.com)


## ARCHITECT:



**TCA Architects**  
801 S Grand Ave. #1020  
Los Angeles, CA 90017  
Contact: Armine Movsesyan/  
Anna Mendoza

**P: 213.553.1100**  
[www.tca-arch.com](http://www.tca-arch.com)  
[amovsesyan@tca-arch.com](mailto:amovsesyan@tca-arch.com)  
[amendoza@tca-arch.com](mailto:amendoza@tca-arch.com)

## LANDSCAPE ARCHITECT:



**TGP INC.**  
8PO Box 704  
Montrose, CA 91021  
Contact: Nanda R

**P: 818.797.5914**  
[www.tgpinc.net](http://www.tgpinc.net)  
[amovsesyan@tca-arch.com](mailto:amovsesyan@tca-arch.com)  
[nandar@tgpinc.net](mailto:nandar@tgpinc.net)




# SHEET INDEX

A-1	SITE PLAN - EXISTING CONDITIONS
A-2	SITE PLAN - PROPOSED STREET VACATION
A-3	SITE PLAN - PROPOSED
A-4	SITE PLAN - PROJECT SUMMARY
B-1	DETAILED GRADING AND DRAINAGE PLAN
C-1	GROUND LEVEL LANDSCAPE PLAN
C-2	PODIUM LEVEL LANDSCAPE PLAN
C-3	ROOF DECK LANDSCAPE PLAN
D-1	ELEVATIONS
D-2	ELEVATIONS
D-3	BUILDING SECTION
D-4	MATERIALS
D-5	ARCHITECTURAL RENDERING
D-6	ARCHITECTURAL RENDERING
E-1	1ST FLOOR PLAN
E-2	2ND & 3RD FLOOR PLANS
E-3	4TH & 5TH FLOOR PLANS
E-4	ROOF PLAN

311 Baker St., Placentia, CA 92870

[illegible][illegible]

ITEMS CORRESPONDING TO TABLE A ITEMS	
ITEM 6(a)	CONING INFORMATION NOT PROVIDED BY CLIENT
ITEM 14	THE NEAREST INTERSECTING STREET TO THE PROPERTY ARE BAKER STREET AND MELROSE STREET AS SHOWN HEREON.
ITEM 16	EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITION OBSERVED IN THE PROCESS OF CONDUCTING THE FIELD WORK.
ITEM 17	NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELD WORK.

POSSIBLE ENCROACHMENT NOTES	
THIS IS A LISTING OF OBSERVED IMPROVEMENTS THAT CROSS PROPERTY LINES. STATEMENT OF OWNERSHIP OR POSSESSION IS NOT THE INTENT OF THIS LISTING.	
	COLUMN OVERLAPS THE PROPERTY LINE AS SHOWN
	POWER POLE ARM OVERLAPS THE PROPERTY LINE AS SHOWN
	FENCE OVERLAPS THE PROPERTY LINE AS SHOWN

LEGAL DESCRIPTION	TITLE REPORT #
ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE COUNTY OF ORANGE, STATE OF CALIFORNIA DESCRIBED AS FOLLOWS:	
LOT 18 IN BLOCK 8 OF BRADFORDS RESUBDIVISION OF BLOCKS 18 AND 1 TOWNSHIP 16N, RANGE 15E, IN THE CITY OF PLACENTIA, COUNTY OF ORANGE, STATE OF CALIFORNIA, AS SHOWN ON A MAP THEREOF RECORDED IN BOOK 8, PAGE 65 OF MISCELLANEOUS MAPS, RECORDS OF SAID ORANGE COUNTY.	
APN: 339-392-19	

[illegible]

LEGAL DESCRIPTION	TITLE REPORT #
<p>ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE COUNTY OF ORANGE, STATE OF CALIFORNIA DESCRIBED AS FOLLOWS:</p> <p>PARCEL 1, OF PARCEL MAP NO. 87-444, IN THE CITY OF PLACENTIA, COUNTY OF ORANGE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 236, PAGES 11 AND 12 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.</p> <p>A/P#s 339-382-14 &amp; 339-382-15</p>	

[illegible]

**SURVEYOR'S NOTES**

- THE UTILITIES SHOWN HEREON ARE BASED ON ORDERED EVIDENCE ONLY. THIS SURVEY WOULD NOT SHOW UTILITIES COVERED BY CURBS/BUCKS OR RECENTLY PAVED ASPHALT/CONCRETE OR OVERGROWN GRASS, TREES AND SHRUBS.

- UNLESS THIS PLAN HAS THE SEAL AND SIGNATURE OF THE SURVEYOR AND/OR ENGINEER RESPONSIBLE FOR ITS PREPARATION, THIS IS NOT AN AUTHENTIC COPY OF THE ORIGINAL SURVEY AND SHALL NOT BE DEEMED RELIABLE.

**FLOOD NOTE:** BY GRAPHIC PLOTTING ONLY. THIS PROPERTY IS IN ZONE "X" OF THE FLOOD INSURANCE RATE MAP. PANEL NO. 0000000000. PANEL DATED DECEMBER 12, 2000. THIS PROPERTY IS NOT LOCATED IN AN AREA WHERE FLOOD HAZARDS EXIST AS DETERMINED BY FEMA. BY TELEPHONE CALL TO THE NATIONAL FLOOD INSURANCE PROGRAM (800-458-6420) WE HAVE LEARNED THIS COMMUNITY DOES CURRENTLY PARTICIPATE IN THE PROGRAM. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE AND AN ELEVATION CERTIFICATE MAY BE NEEDED TO VERIFY THIS.

## SURVEYOR'S CERTIFICATE

TO PLACENTA REDEVELOPMENT AGENCY & COMMONWEALTH LAND TITLE COMPANY


THIS IS TO CERTIFY THAT THIS MAP OF PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2002 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA SURVEYS AND THE SURVEYS JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 2, 3, 4, 5, 6, 8, 9, 12, 13, 14, 15, 16 & 19 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JULY 25, 2003.

DATE OF PLAT OR MAP: SEPTEMBER 15, 2003

REVISIONS				PI
NO.	DATE	REVISIONS	BY	LINE
0	08/11/23	SUBMITTAL	FR	304
1	08/16/23	TOPOGRAPHIC SURVEY	FR/CE	ADD
2	09/12/23	COMMENTS	CE	PRO

[illegible]

**SURVEYOR OF RECORD** **FILED COMPLETION DATE: JUL 25, 2012**



**Aracelis B. Duhaime**  
Registration No. 7780

# CAL VADA

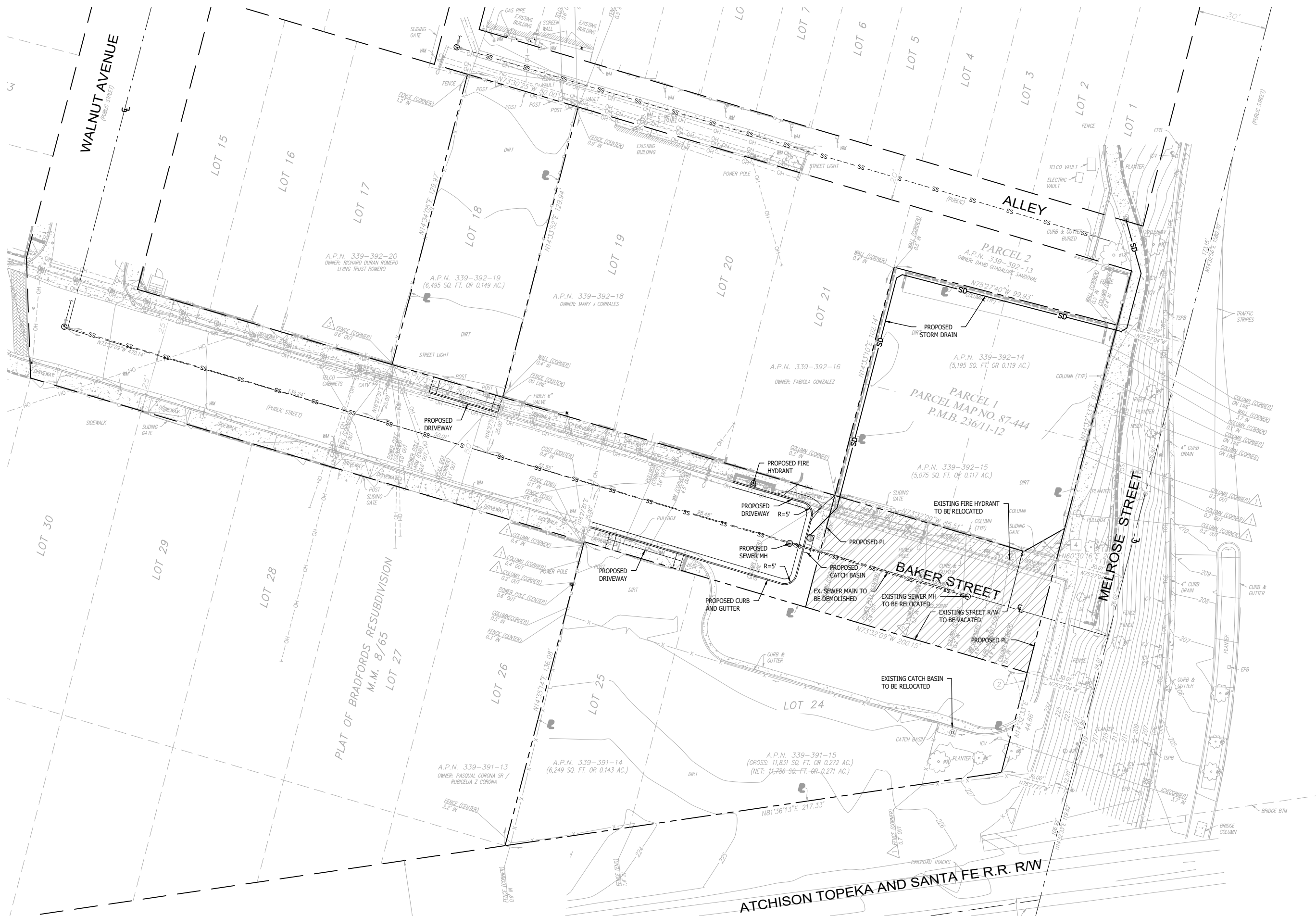
## SURVEYING, INC.

411 Janks Circle, Suite 205, Corona, CA 92678  
 Phone: 951-250-0860 Fax: 951-250-0846  
 Toll Free: 800-CALVADA [www.calvada.com](http://www.calvada.com)

EST. 1989 JOB NO. 23495

**SHEET 1 OF**





DKE

DK ENGINEER, CORP

6420 WILSHIRE BLVD. #1000  
LOS ANGELES, CA 90048  
310.926.0248



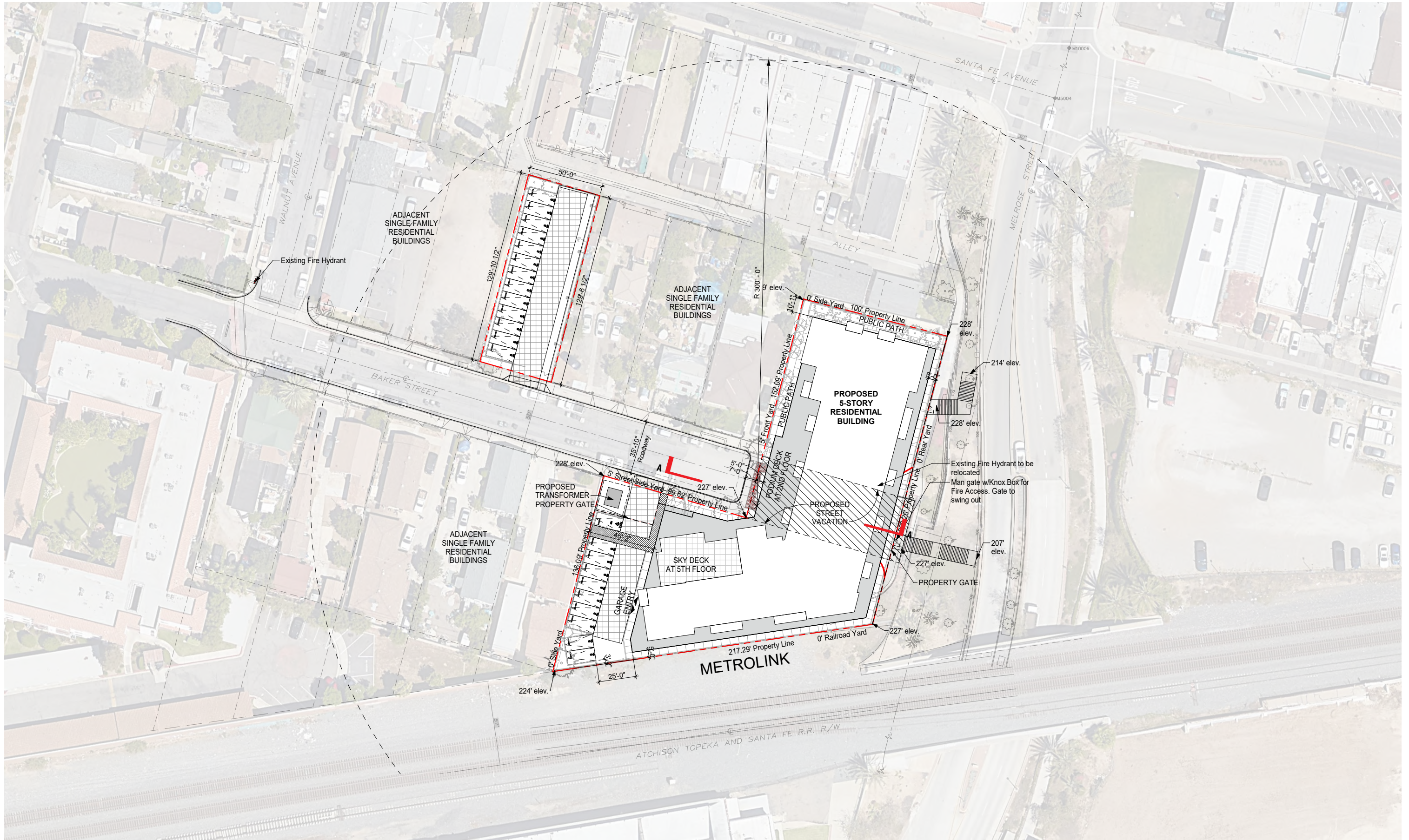
**mercy**  
HOUSING  
213.743.5820

312 BAKER STREET  
PLACENTIA, CALIFORNIA  
TCA # 2023-025

ENTITLEMENT SET  
NOVEMBER 16, 2023

**SITE PLAN**  
PROPOSED STREET VACATION





120'

60'

30'





SITE INFORMATION				
ASSESSOR PARCEL #				
	Development Site	Parcel 1, Lots 24, 25 & Street Dedication	339-392-14,-15 and 339-391-14, -15	
	Satellite Site	Lot 18	339-392-19	
ADDRESS			323,300/ 307, 312,314 Baker St.	
SITE AREA				
	Development Site		0.77 AC	33,497 SF
	Satellite Site		0.15 AC	6,494 SF
DENSITY BONUS				
Density Increase				35% Increase
Parking Reduction				Per State Density Bonus Law
Incentives				
	Height Increase		13' and 1 story	
	Open Space Reduction		25%	
DEVELOPMENT PARAMETERS		PERMITTED/REQUIRED	PROPOSED	
ZONING		High Residential - Old Town Placentia Revitalization Plan	High Residential - Old Town Placentia Revitalization Plan	
SETBACKS		(Railroad/Front/Side/Rear/Street Side)	0'/5'-15'/0'/0'/5'-15'	
MAX. BLDG HEIGHT		(per Zoning)	0'/5'/0'/0'/5'	
DENSITY BONUS HEIGHT (Incentive)		3 min. 4 max. stories/ 55'		
		1 additional story/ 13'	5 stories at 68'	
NUMBER OF UNITS		50		
DENSITY BONUS		35% Increase	68	
DENSITY		(65 units per acre)	88 DU/AC	

UNIT SUMMARY				
UNIT TYPE	Average SF	Total # Units	Unit Mix	Total Net Rent.
1 Bedroom:				
A1	538 SF	27	39.7%	14,526 SF
2 Bedrooms:				
B1	797 SF	22	32.4%	17,534 SF
3 Bedrooms:				
C1	1,082 SF	8	11.8%	8,656 SF
C1.1	1,066 SF	4	5.9%	4,264 SF
C2	1,057 SF	4	5.9%	4,228 SF
C3	1,045 SF	3	4.4%	3,135 SF
Sub-Total		19	28.0%	20,283 SF
TOTAL		770 SF	68	100.0%
				52,343 SF

*GROSS FLOOR AREA SUMMARY		
Gross Residential Floor Area	(Excluding garage)	65,586 SF
Lobby		583 SF
Mail/ PKG.		202 SF
(3) Resident Supportive Services	(160 sf each service room)	480 SF
Break/Copy Room		233 SF
Unisex Restroom		91 SF
Maintenance Room		686 SF
Conference Rm	(Includes kitchenette)	770 SF
Community Rm		750 SF
Community Rm - Restrooms		275 SF
Laundry Rooms	(1 per residential flr.)	566 SF
Garage	(Includes B.O.H and Bicycle Parking)	19,145 SF
		89,367 SF

\*Means the sum of the gross horizontal areas of the several floors of the building excluding areas used for accessory garage purposes and such basement and cellar areas as are devoted exclusively to uses accessory to the operation of the building. All horizontal dimensions shall be taken from the exterior faces of walls including walls or other enclosures of enclosed porches. Whenever the term “gross floor area” is used in this title as a basis for requiring off-street parking for any structure, it shall be assumed that, unless otherwise stated, such floor area applies not only to the ground floor area but also to any additional stories or basement of such structure.

PARKING SUMMARY			
REQUIRED PARKING per Density Bonus			
Unit Type	# Units	Ratio	Total
1-Bedroom	10	1.0	10
2-Bedrooms	19	1.5	29
3-Bedrooms	19	1.5	29
Guest	0	Not Required	0
TOTAL	48		68
PSH Units - 1 bedroom	17	no parking req'd per AB1763	
PSH Units - 2 bedroom	3	no parking req'd per AB1763	
TOTAL	20	Units	0
TOTAL REQUIRED	68		68
Voluntary Resident Supportive Services	1,25 0 SF	4 per 1000	5
TOTAL			73
BICYCLE PARKING - RESIDENTIAL REQUIRED/PROVIDED			
	Ratio	# Units	Total
Short-term	1 per 5 units	68	14
*Long-Term	2 per 5 units	20	8
	1 per 5 units	48	10
TOTAL			32
*Long Term Bicycle parking are Double Stacked			

OPEN SPACE SUMMARY		
COMMON REQUIRED		
	SF per unit	# Units
Total Units	50	68
		3,400 SF
		SUB - TOTAL
		3,400 SF
Density Bonus Reduction (Incentive)		25%
		850 SF
		TOTAL
		2,550 SF

PRIVATE REQUIRED		
	SF per unit	# Units
Total Units	64	68
		4,352 SF
		TOTAL
		4,352 SF

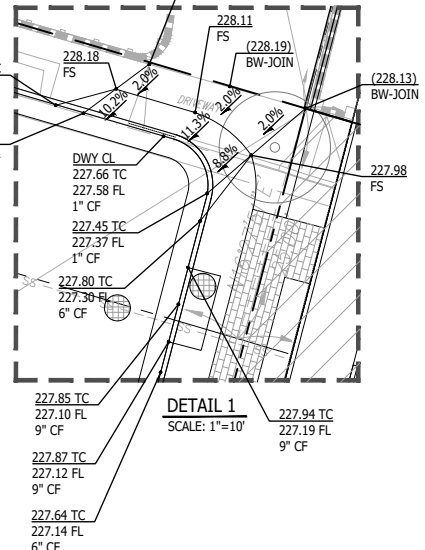
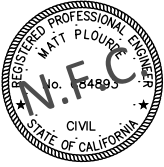
PROVIDED PARKING					
LEVEL	Stackers	Tandem	Surface Stalls	ADA Stalls	Standard - 9x19
Resident Supportive Services		2		1	2
Residents	56	2		2	7
Satellite Lot			13		
Outside Surface			9	1	
TOTAL	56	4	22	4	9
*Accessible EV Chargers per 11B (1 EV Van HC, not counted towards overall provided parking)					
ADA PARKING - RESIDENTIAL REQUIRED/PROVIDED PER CBC 11B TABLE 11B-208.2 PARKING SPACES					
				# Stalls	Required/Provided
ADA Stalls - Residential Surface				22	1
ADA Stalls - Residential Garage				68	2
ADA Stalls - Resident Supportive Services				5	1
TOTAL				95	4

EV PARKING - RESIDENTIAL REQUIRED/PROVIDED per CalGreen			
	Percentage	# Stalls	Total
EV Ready	25%	89	22
EV Capable	10%	89	9
EV Chargers	5%	89	5
			36
			40%


Accessible EV Chargers per 11B (1 EV Van HC provided)

PROVIDED COMMON	
LEVEL	Total
Courtyard at podium	1,493 SF
Sky Deck	1,057 SF
2,550 SF	

PROVIDED PRIVATE	
Balconies	4,352 SF









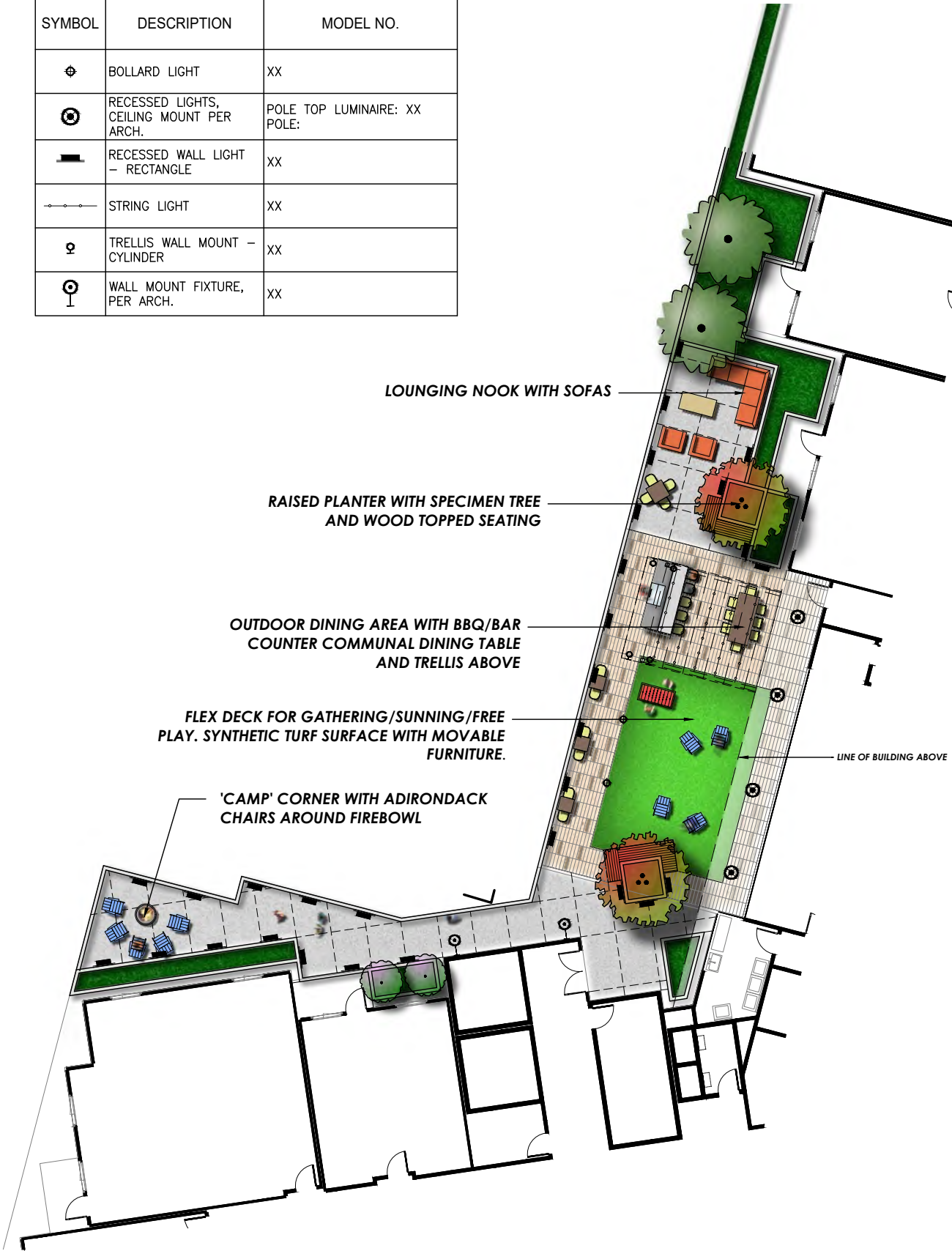


LIGHTING LEGEND		
SYMBOL	DESCRIPTION	MODEL NO.
	PARKING POLE LIGHT	POLE TOP LUMINAIRE: XX POLE:





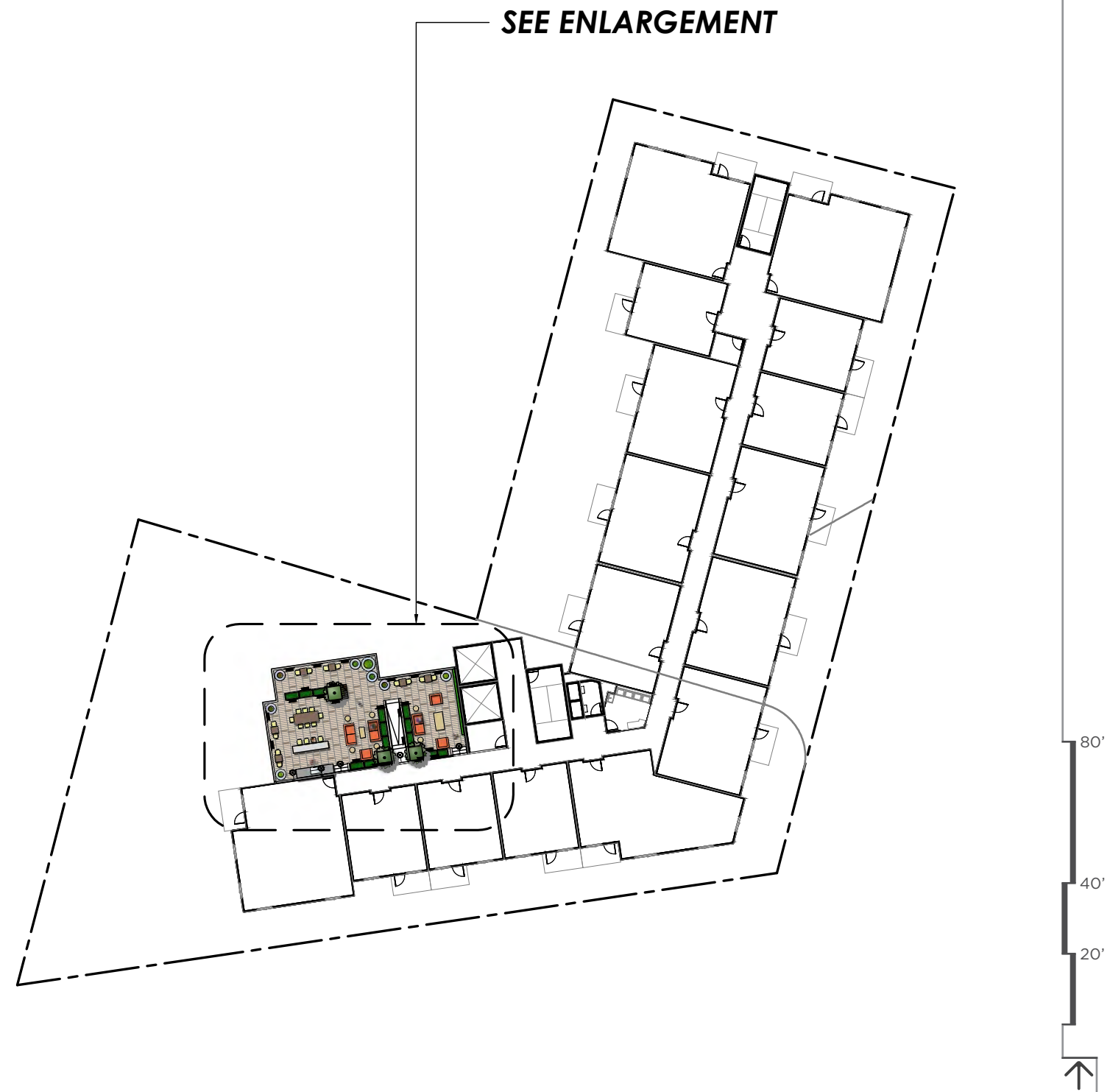
LIGHTING LEGEND		
SYMBOL	DESCRIPTION	MODEL NO.
	BOLLARD LIGHT	XX
	RECESSED LIGHTS, CEILING MOUNT PER ARCH.	POLE TOP LUMINAIRE: XX POLE:
	RECESSED WALL LIGHT - RECTANGLE	XX
	STRING LIGHT	XX
	TRELLIS WALL MOUNT - CYLINDER	XX
	WALL MOUNT FIXTURE, PER ARCH.	XX



**A** PODIUM ENLARGEMENT  
SCALE: 1" = 10'-0"



**A** SKY DECK ENLARGMENT  
SCALE: 1" = 10'-0"







**NORTH ELEVATION**



**EAST ELEVATION**

**MATERIAL LEGEND**

- P1 - WHITE PLASTER - OR SIMILAR
- P2 - TAN PLASTER - OR SIMILAR
- T1 - STONE TILE - OR SIMILAR
- T2 - PATTERN TILE - OR SIMILAR
- M1 - METAL AWNING - OR SIMILAR
- M2 - METAL ROOF - OR SIMILAR
- M3 - PERFORATED METAL - OR SIMILAR
- M4 - FABRIC AWNING - OR SIMILAR
- R1 - METAL BALCONIES - OR SIMILAR
- W1 - STOREFRONT GLAZING - OR SIMILAR
- W2 - VINYL WINDOWS - OR SIMILAR
- L1 - WALL SCNCE
- L2 - DOWN LIGHT



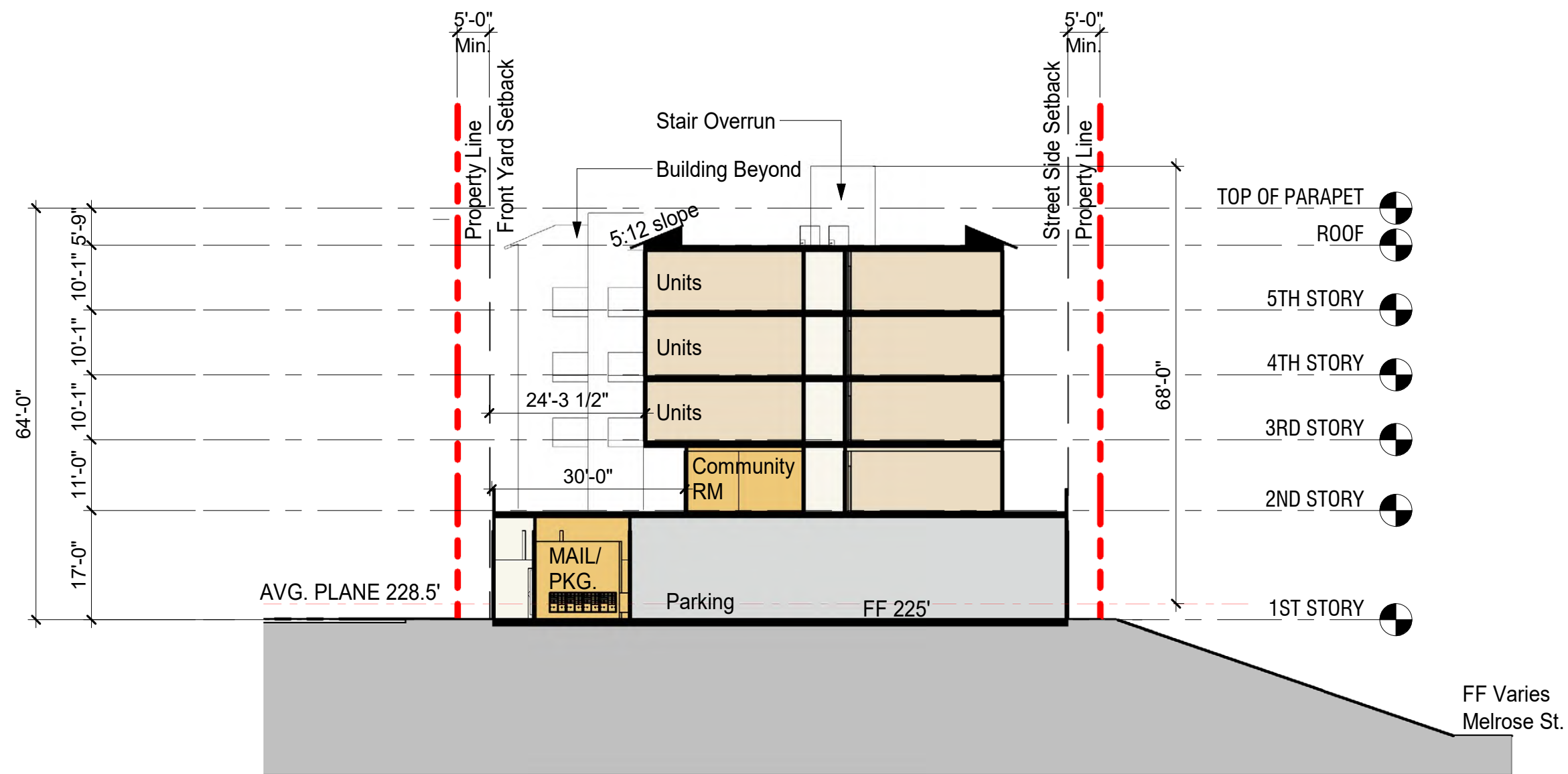
SOUTH ELEVATION



WEST ELEVATION

### MATERIAL LEGEND

- P1 - WHITE PLASTER - OR SIMILAR
- P2 - TAN PLASTER - OR SIMILAR
- T1 - STONE TILE - OR SIMILAR
- T2 - PATTERN TILE - OR SIMILAR
- M1 - METAL AWNING - OR SIMILAR
- M2 - METAL ROOF - OR SIMILAR
- M3 - PERFORATED METAL - OR SIMILAR
- M4 - FABRIC AWNING - OR SIMILAR
- R1 - METAL BALCONIES - OR SIMILAR
- W1 - STOREFRONT GLAZING - OR SIMILAR
- W2 - VINYL WINDOWS - OR SIMILAR
- L1 - WALL SCENCE
- L2 - DOWN LIGHT

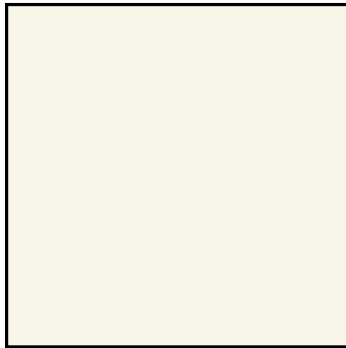


SECTION A-A

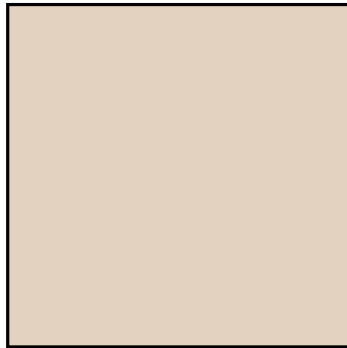
Zoning Code Sec. 23.04.010 Definitions

Height, Building. "Building height" means the vertical distance from the average level of the highest and lowest point of that portion of the lot covered by the building to the highest point of the building exclusive of chimneys and ventilators and other exceptions to building height permitted in the zones.





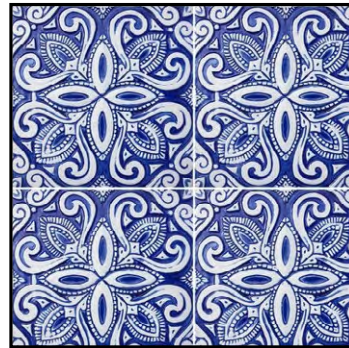
**P1 Plaster finish 1**  
DEW341 Swiss Coffee or Similar



**P2 Plaster finish 2**  
DE6128 Sand Dune or Similar



**T1 Tile Cladding**  
Travertine finish or Similar



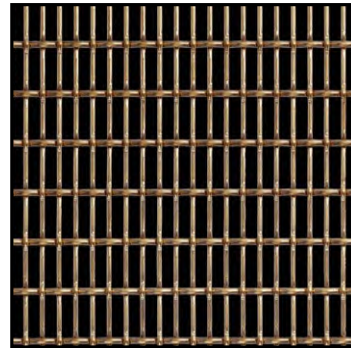
**T2 Accent Tile**  
Blue Pattern finish or Similar



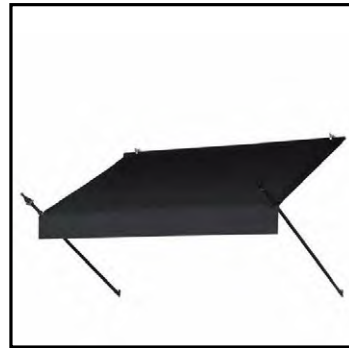
**M1 Metal Awning**  
Bronze Finish or Similar



**M2 Standing Seam Roof**  
Terra Red Finish or Similar



**M3 Perforated Metal**  
Bronze Finish or Similar



**M4 Awning**  
Bronze Finish or Similar



**R1 Metal Picket Balcony**  
Bronze Finish or Similar



**W1 Storefront Glazing**  
Bronze Finish or Similar



**W2 Vinyl Windows**  
Dark Finish or Similar



**MATERIALS**

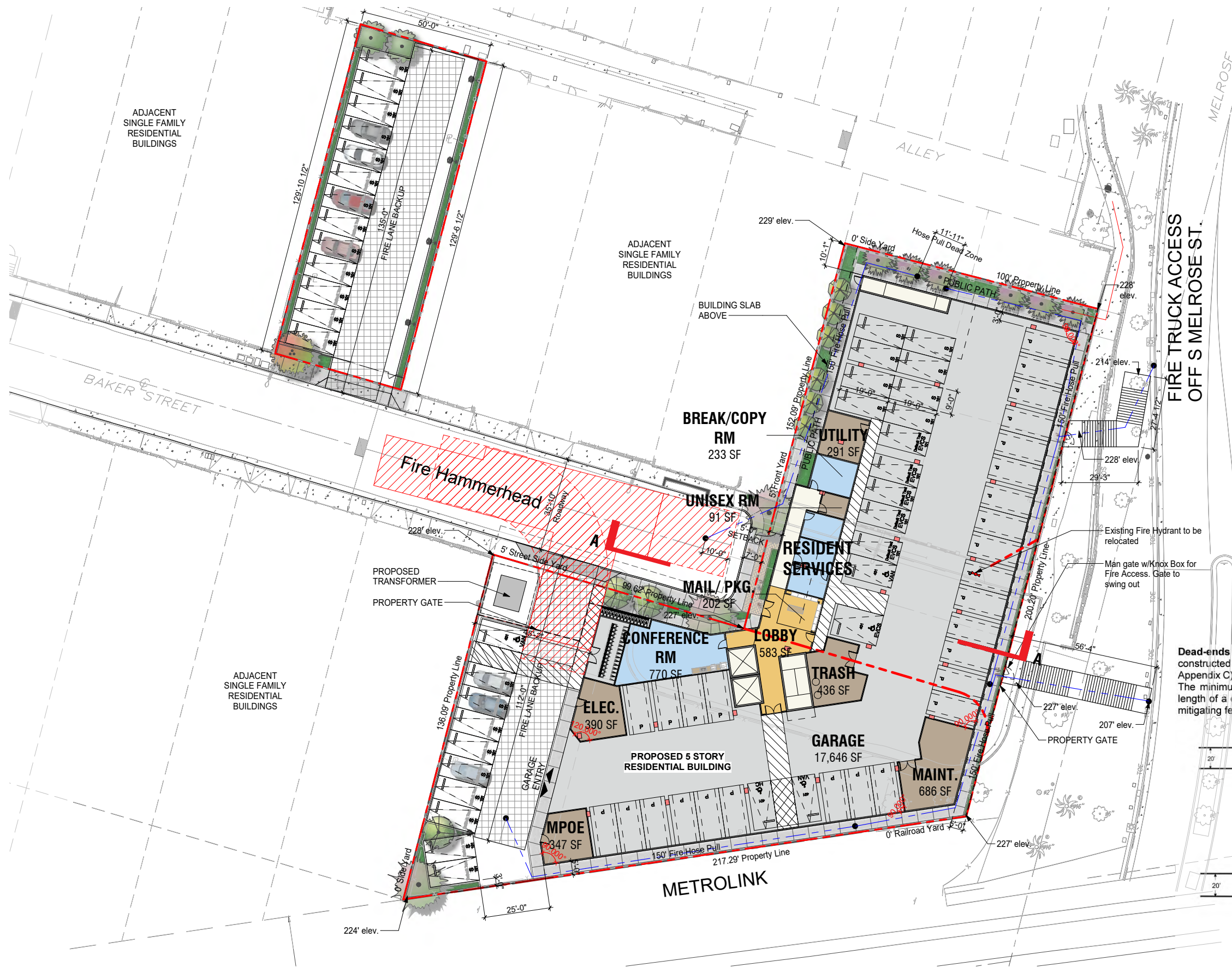






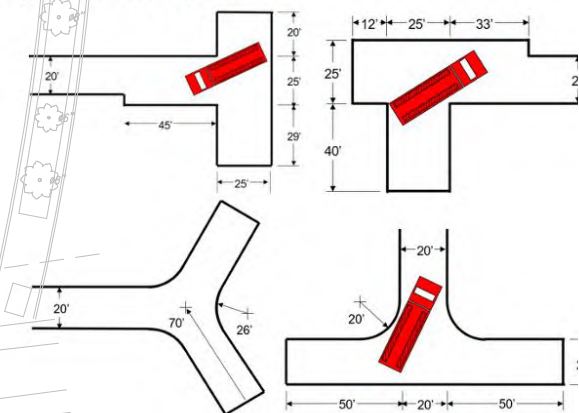






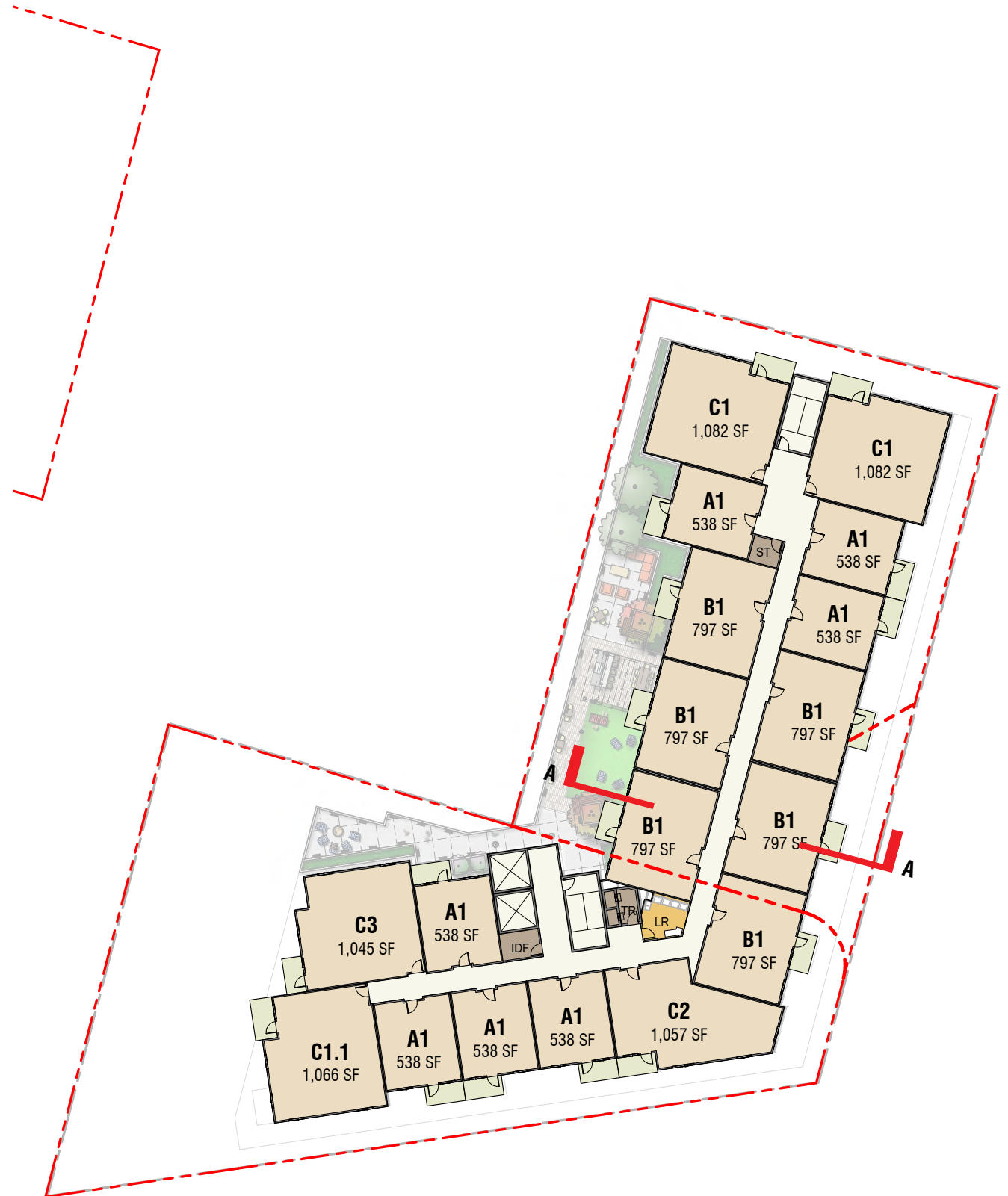
FIRE TRUCK ACCESS  
OFF S MELROSE ST.

**Dead-ends** - Dead-end roadways more than 150 feet shall be constructed with approved hammerheads or turnarounds (Figure 3, Appendix C). Turnarounds shall meet the turning radius requirements in the Appendix C. The minimum cul-de-sac radius is 40 feet with no parking allowed. The length of a cul-de-sac or other dead-end road without mid-way turnaround mitigating features is 800 feet.

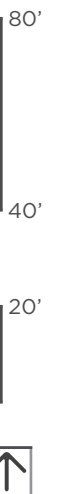




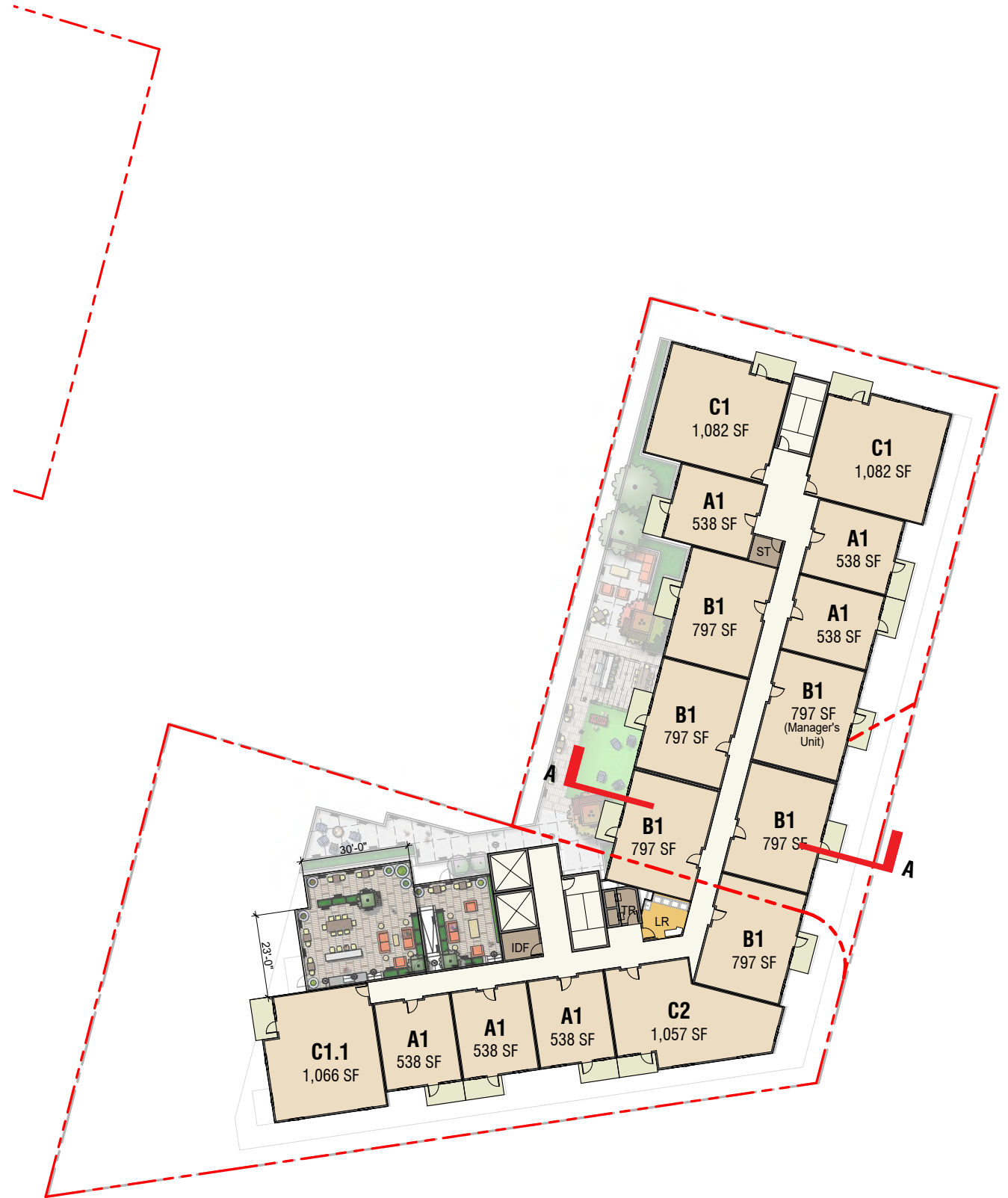
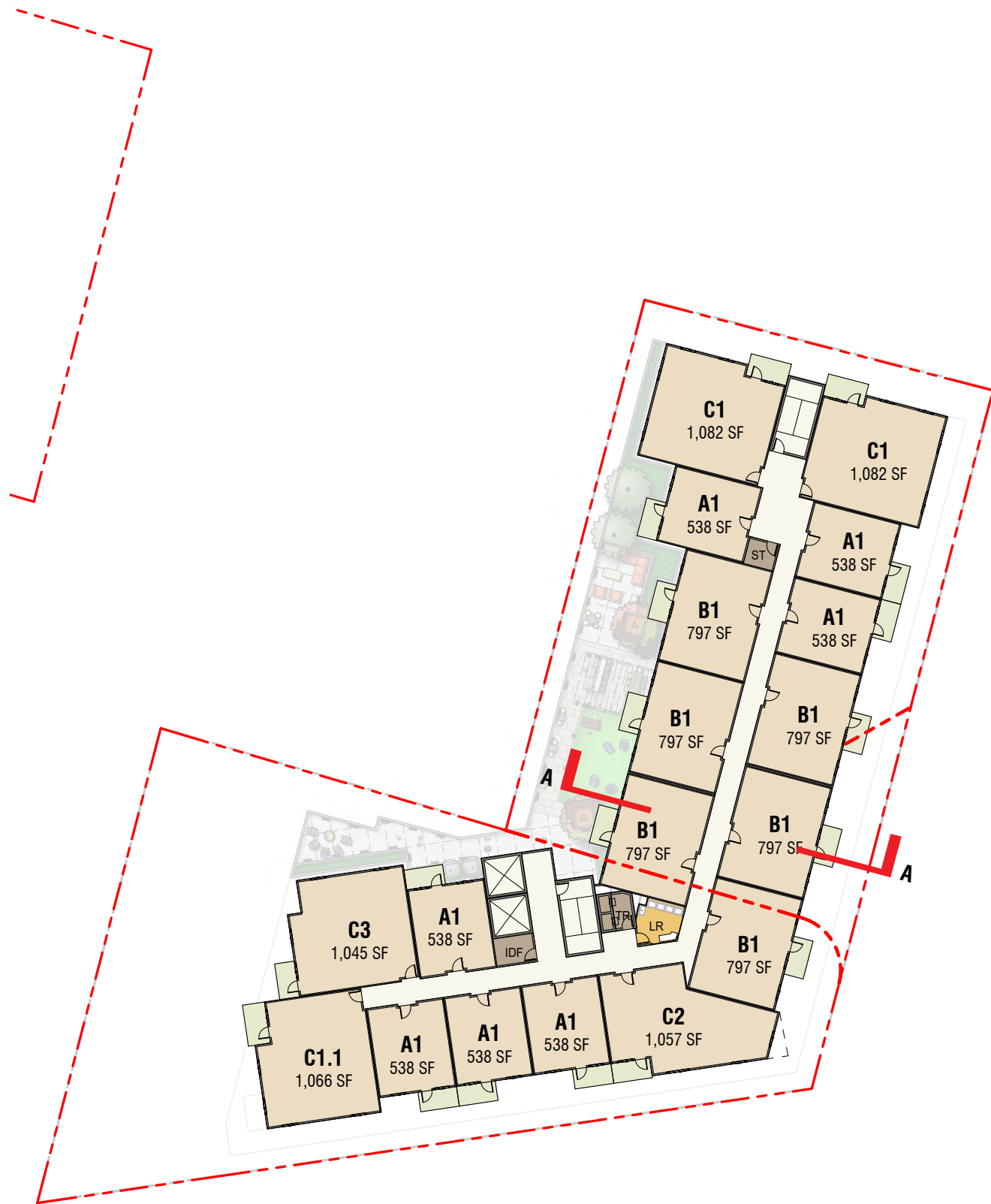
2ND FLOOR PLAN

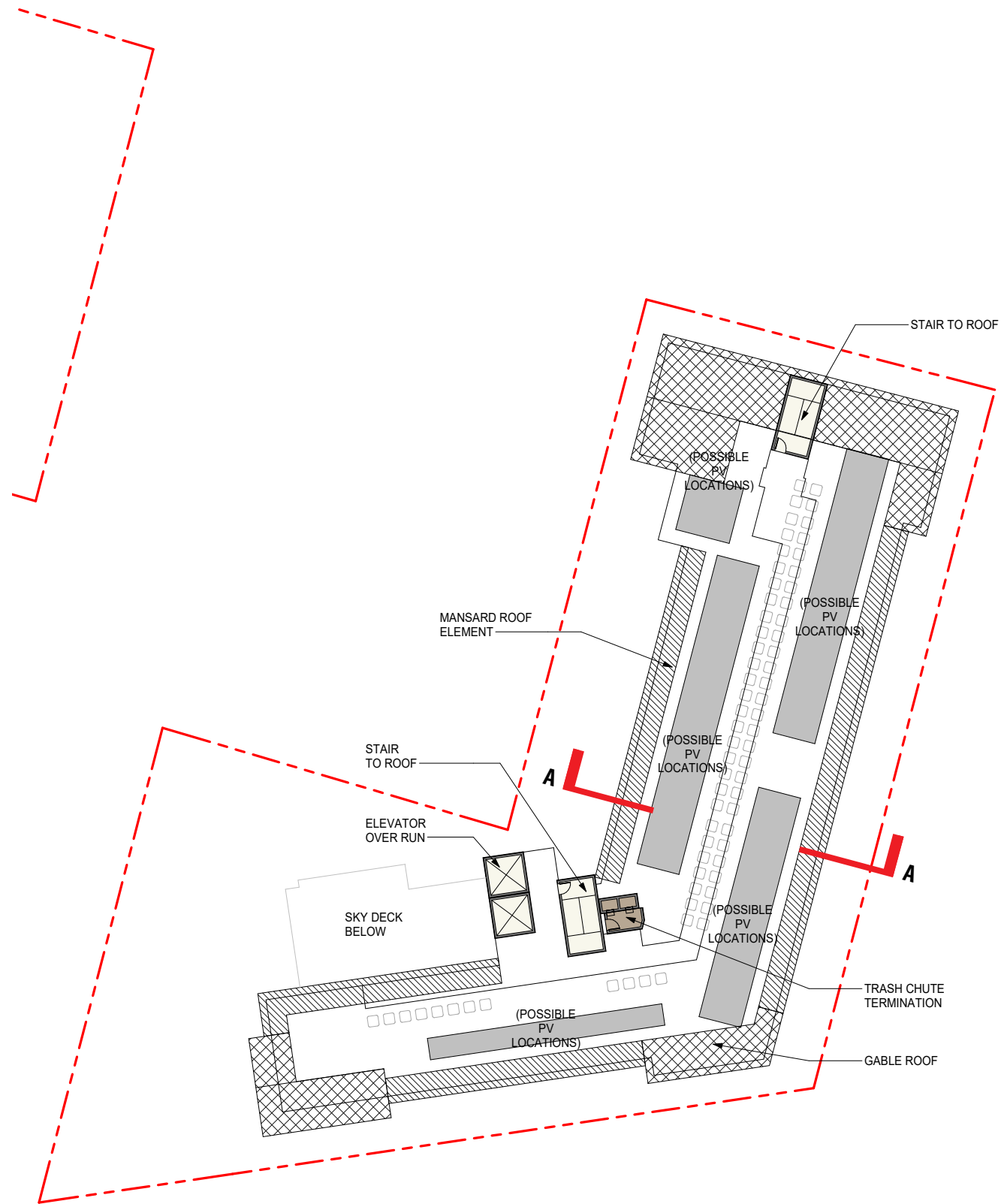


3RD FLOOR PLAN









ROOF PLAN



### **Attachment 3. Architectural Design Narrative**

## **Exhibit 4.22**

### **Architectural/Construction Design Narrative**

**Provide a narrative of the project design concept, current site description, and the current status of the architectural design work.**

#### **Overview**

The Placentia Baker Street development will be in the city of Placentia, Orange County, CA. The development site is comprised of 4 parcels. Three of the four lots are adjacent to each other at the end of a cul-de-sac, and the fourth lot is located three parcels to the west. The site is located near a future Metrolink station, parks and schools. The housing development is planned for families and individuals and families exiting homelessness. It will be a 5-story, 68 units structure with a mix of 1, 2, and 3 bedrooms at incomes ranging from 30% to 60% AMI. This includes eighteen permanent supportive housing units for formerly homeless households.

#### **Design Concept**

The site design follows a Spanish colonial aesthetic that reflects the city's existing architectural landscape and is aligned with the city's vision for its Old Town Placentia Revitalization Plan. The affordable housing development proposal amenities include a large lobby and with office space for property management and resident services, play structures on the ground floor, and community room adjacent to landscaped open space on the fifth floor. Seventy-one parking spaces are currently planned for the site based on local zoning requirements and will be a mix of ground level and podium parking.

#### **Site Description**

The Placentia Baker Street development site is bound by Melrose Street to the east, Walnut Avenue to the west, Santa Fe Avenue to the north, and railroad tracks to the south. Three of the four lots are adjacent to each other at the end of a cul-de-sac, and the fourth lot is located three parcels to the west. Current land uses immediately surrounding the Development Sites include low- and medium-density residential uses, as well as a church (Mission of Faith) located at the northeast corner of Walnut Avenue and Baker Street.

The subject parcels are located immediately west of the planned Placentia Metrolink Station that will serve the 91 Line, which services Los Angeles, Orange, and Riverside Counties, as well as a yet to be developed 253-space Parking Structure. Upon completion, the Metrolink station will serve as a hub for the adjacent Packing House District/Transit Oriented Development District ("TOD"), created in 2017 to encourage the introduction of more mixed-use, pedestrian oriented retail and residential development within a ½ mile area of the station.

The area immediately south of the site has various projects recently completed or under construction. This includes Metro at Melrose to the east of the site which, when completed, will be a six-story TOD project containing 189 affordable residential units, 1,500 square feet of ground floor commercial retail and 272 parking spaces. Continuing east along west Crowther Avenue, Jefferson Ceniza will be a mixed-use development that will consist of 418 luxury multifamily units and more than 8,200 square feet of retail space. It was designed by TCA and is targeted for completion in Fall 2023. Located to the west of the site, The Herald provides luxury 1, 2, and 3 bedroom apartments with various courtyards, fenced dog run, and various other amenities.

MHC continues to focus on opportunities in Orange County and adding a second community to our existing Placentia Veterans Village allows us to deepen our ties and impact in the city and region.

### **Status of Design Work**

The site is owned by the City of Placentia and Mercy's RFP proposal was officially selected by vote of the Placentia city council on May 17, 2023. Design work is in final conceptual and starting Schematics.

## **Attachment 4. Phase I ESA**





## PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

**300/307, 312, 314 and 323 Baker  
Street**

Placentia, California 92870

**Report Date**

September 20, 2023

**Partner Project No.**

23-421197.1

**Prepared for:**

Mercy Housing  
1500 Grand Avenue, Suite 100  
Los Angeles, California 90015



Building  
Science



Environmental  
Consulting



Construction &  
Development



Energy &  
Sustainability



September 20, 2023

Mercy Housing  
1500 Grand Avenue, Suite 100  
Los Angeles, California 90015

Subject: Phase I Environmental Site Assessment  
300/307, 312, 314 and 323 Baker Street  
Placentia, California 92870  
Partner Project No. 23-421197.1

Partner Engineering and Science, Inc. (Partner) is pleased to provide this Phase I Environmental Site Assessment (Phase I ESA) report of the abovementioned address (the "subject property"). This assessment was performed in conformance with the scope and limitations as detailed in the ASTM Practice E1527-21 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process and Client Agreement.

This assessment included a site reconnaissance as well as research and interviews with representatives of the public, property ownership, site manager, and regulatory agencies. An assessment was made, conclusions stated, and recommendations outlined.

We appreciate your trust in Partner and the opportunity to provide environmental services to you. If you have any questions concerning this report, or if we can assist you in any other matter, please contact me at (949) 481-9818.

Sincerely,

Robert Vaughn  
National Client Manager

## EXECUTIVE SUMMARY

Partner Engineering and Science, Inc. (Partner) has performed a Phase I Environmental Site Assessment (ESA) in accordance with the scope of work and limitations of ASTM Practice E1527-21, the Environmental Protection Agency Standards and Practices for All Appropriate Inquiries (AAI) (40 CFR Part 312) and set forth by Mercy Housing for the property located at 300/307, 312, 314 and 323 Baker Street in Placentia, Orange County, California (the “subject property”). The Phase I Environmental Site Assessment is designed to provide Mercy Housing with an assessment concerning environmental conditions (limited to those issues identified in the report) as they exist at the subject property.

### Property Description

The subject property is located on the northeast and southwest sides of Baker Street within a residential and commercial area of Orange County. Please refer to the table below for a further description of the subject property:

<b>Subject Property Data</b>	
<b>Address(es):</b>	300/307, 312, 314 and 323 Baker Street, Placentia, California
<b>Historical Address(es):</b>	19, 20, 21, 22, 23, 24, 41, 42, 43, 44, 51, 52, 306, 310, 311, 321 Baker Street 27, 28, 29, 30, 329, 330, 333, 401 Melrose Street
<b>Property Use:</b>	Vacant land
<b>Land Acreage (Ac):</b>	0.86 acres
<b>Number of Buildings:</b>	None
<b>Parcel Number:</b>	339-391-14, 339-391-15, 339-392-14, 339-392-15, and 339-392-19
<b>Current Tenants:</b>	Unoccupied
<b>Site Assessment Performed By:</b>	Nasim Ahmed of Partner
<b>Site Assessment Conducted On:</b>	September 14, 2023
<b>Regulatory Radius Report Date:</b>	September 18, 2023
<b>Lien Search Date:</b>	September 11, 2023
<b>Report Date:</b>	September 20, 2023
<b>FOIAs Date:</b>	September 6, 2023

The subject property consists of five separate parcels of vacant land (herein referred to as Site A, Site B and Site C). Site A is located on the northeast side of Baker Street and is currently identified as 307 Baker Street. Site B is located on the southwest side of Baker Street and is currently identified as 312 and 314 Baker Street. Site C is located on the northeast side of Baker Street and is currently identified as 323 Baker Street. The subject property is currently vacant land covered with weeds, natural vegetation, trees and bushes.

According to available historical sources, the subject property was formerly undeveloped as early as 1895; developed with dwellings between 1917 and 1985; developed with dwellings and commercial structure between 1995-2010; and became vacant land between 2012-Present. Tenants on the subject property have included various residential tenants (1955-2012); Assures Electric Contracting (1991-1996); and Helical Tool Technologies, Southern Calif Tool Supply (2000 -2003).

The adjoining properties are tabulated below:



























































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































## **Attachment 5. Airports Screenshot**

Measure

Click one of the following buttons to start measuring:

Unit

Miles

Mode

Auto

Distance

7.12 mi

New Measurement

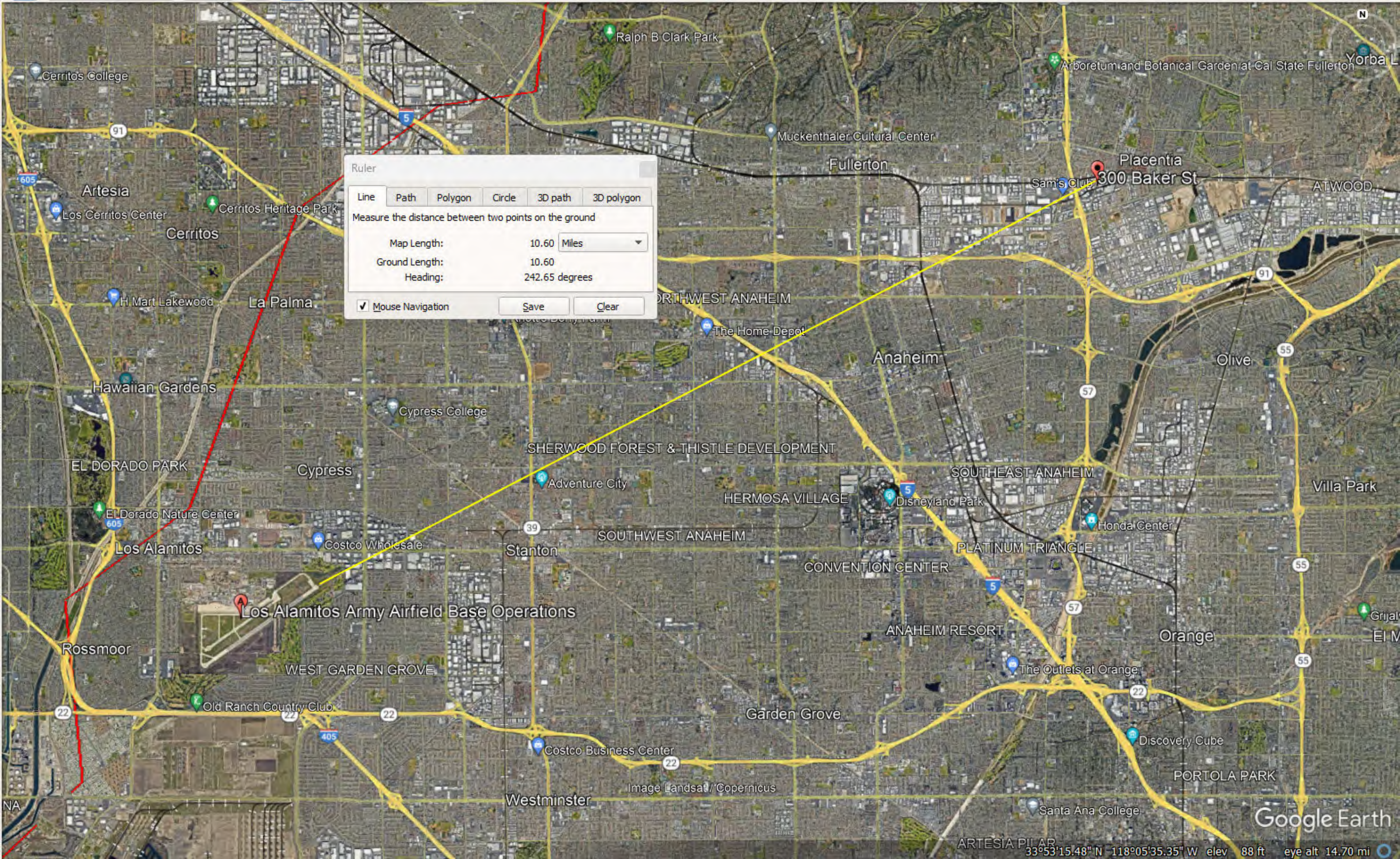
The map displays a large area of Southern California, including Los Angeles, Orange County, and parts of San Diego and Riverside counties. A measurement line is drawn horizontally across the map, starting near the city of Buena Park and ending near the city of Corona. The measurement is labeled as 7.12 mi. The map includes various geographical features such as cities, roads, and parks. A scale bar in the bottom left corner indicates distances in kilometers (6 km) and miles (4 mi).

Select Map Contents

- EPA Facilities
- Water Monitoring Stations
- Non-attainment Areas
- EJScreen Indexes (2021)
- Boundaries
- Water
- Transportation
  - ☒ Airport Points
  - ☐ Airport Polygons
  - ☐ Railroads
- Places
- Critical Habitat
- NWI Wetlands
- FEMA Flood
- Land Cover

EnviroMapper®





Ruler

Line Path Polygon Circle 3D path 3D polygon

Measure the distance between two points on the ground

Map Length: 10.60 Miles

Ground Length: 10.60

Heading: 242.65 degrees

☒ Mouse Navigation Save Clear



## **Attachment 6. Coastal Barrier Resources**



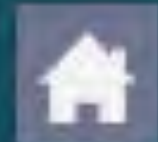
BASEMAPS

MAP LAYERS

☒ CBRS Units

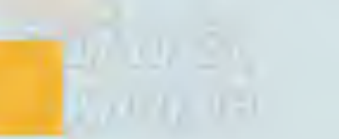
[Click here](#) to learn more about CBRS Units.

Measure



LEGEND

CBRS Units



1: 18,489,298  
50.651 | -128.992

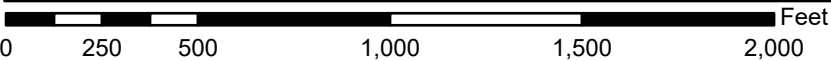
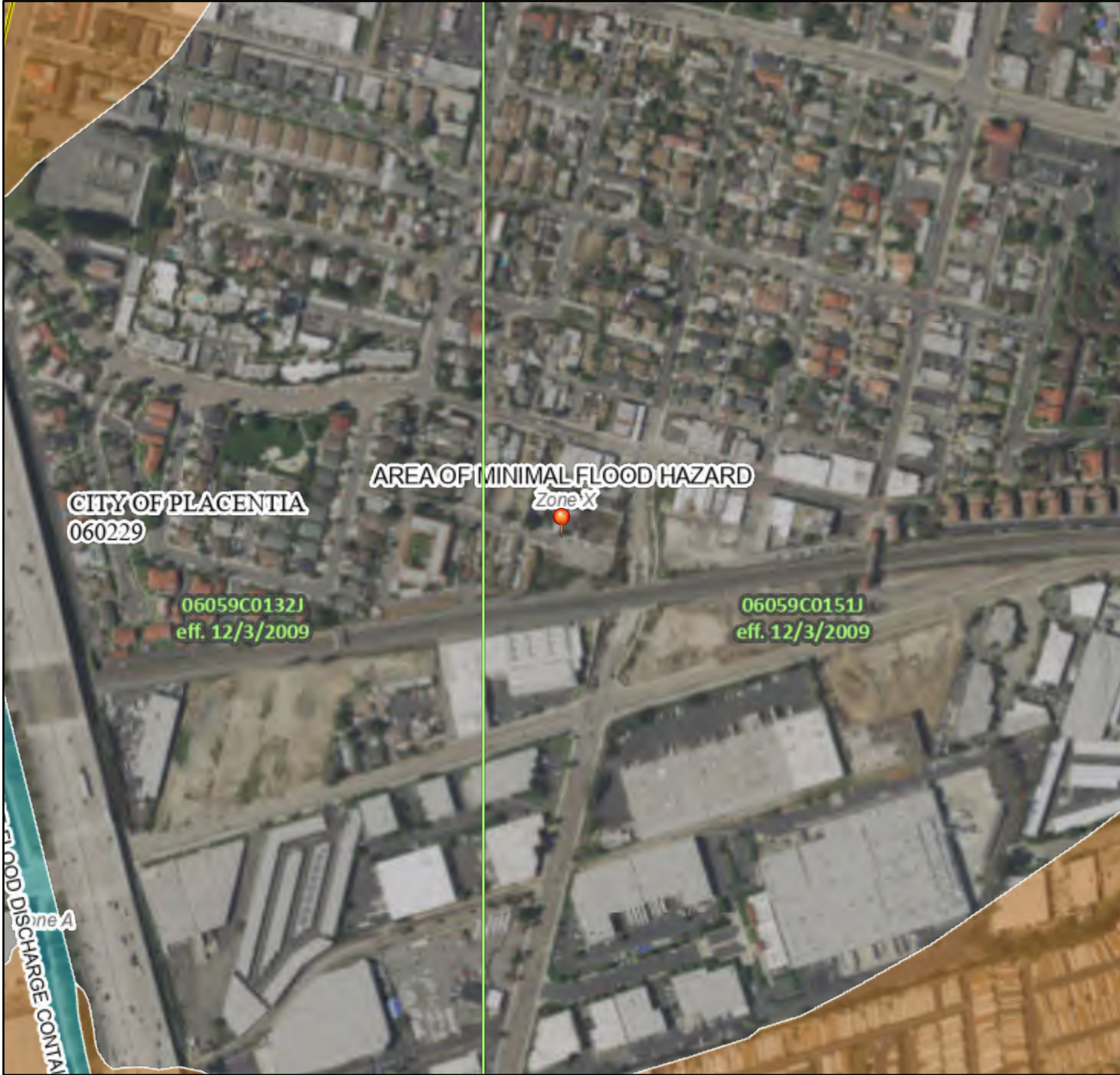


**Attachment 7. FEMA FIRM Map**

# National Flood Hazard Layer FIRMMette



117°52'46"W 33°52'22"N



1:6,000

117°52'9"W 33°51'53"N

Basemap Imagery Source: USGS National Map 2023

## 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 Zone AE, AO, AH, VE, AR
		Regulatory Floodway
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		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/20/2023 at 12:56 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: basemap 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.

## **Attachment 8. Detailed Air Quality Report**

# HUD Baker Street Project - Placentia Detailed Report

## Table of Contents

- 1. Basic Project Information
  - 1.1. Basic Project Information
  - 1.2. Land Use Types
  - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
  - 2.1. Construction Emissions Compared Against Thresholds
  - 2.2. Construction Emissions by Year, Unmitigated
  - 2.3. Construction Emissions by Year, Mitigated
  - 2.4. Operations Emissions Compared Against Thresholds
  - 2.5. Operations Emissions by Sector, Unmitigated
  - 2.6. Operations Emissions by Sector, Mitigated
- 3. Construction Emissions Details
  - 3.1. Site Preparation (2024) - Unmitigated
  - 3.2. Site Preparation (2024) - Mitigated

3.3. Grading (2024) - Unmitigated

3.4. Grading (2024) - Mitigated

3.5. Building Construction (2024) - Unmitigated

3.6. Building Construction (2024) - Mitigated

3.7. Building Construction (2025) - Unmitigated

3.8. Building Construction (2025) - Mitigated

3.9. Paving (2025) - Unmitigated

3.10. Paving (2025) - Mitigated

3.11. Architectural Coating (2025) - Unmitigated

3.12. Architectural Coating (2025) - Mitigated

#### 4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

#### 4.8. Stationary Emissions By Equipment Type

##### 4.8.1. Unmitigated

##### 4.8.2. Mitigated

#### 4.9. User Defined Emissions By Equipment Type

##### 4.9.1. Unmitigated

##### 4.9.2. Mitigated

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

##### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

##### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

##### 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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##### 5.1. Construction Schedule

##### 5.2. Off-Road Equipment

##### 5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

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5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths



5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

### 5.15.2. Mitigated

## 5.16. Stationary Sources

### 5.16.1. Emergency Generators and Fire Pumps

### 5.16.2. Process Boilers

## 5.17. User Defined

## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

#### 5.18.1.2. Mitigated

### 5.18.1. Biomass Cover Type

#### 5.18.1.1. Unmitigated

#### 5.18.1.2. Mitigated

### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

#### 5.18.2.2. Mitigated

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

### 6.2. Initial Climate Risk Scores

### 6.3. Adjusted Climate Risk Scores

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

### 7.1. CalEnviroScreen 4.0 Scores

### 7.2. Healthy Places Index Scores

### 7.3. Overall Health & Equity Scores

### 7.4. Health & Equity Measures

### 7.5. Evaluation Scorecard

### 7.6. Health & Equity Custom Measures

## 8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	HUD Baker Street Project - Placentia
Construction Start Date	6/1/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	21.2
Location	300 Baker St, Placentia, CA 92870, USA
County	Orange
City	Placentia
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5765
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.21

## 1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
------------------	------	------	-------------	-----------------------	------------------------	--------------------------------	------------	-------------

Apartments Mid Rise	68.0	Dwelling Unit	0.90	72,438	0.00	—	203	—
Enclosed Parking with Elevator	17.9	1000sqft	0.00	17,854	0.00	—	—	—
Parking Lot	11.0	Space	0.10	0.00	0.00	—	—	—
General Office Building	4.62	1000sqft	0.00	4,623	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Transportation	T-4	Integrate Affordable and Below Market Rate Housing

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.01	49.9	15.9	16.0	0.02	0.74	7.21	7.96	0.68	3.46	4.14	—	2,941	2,941	0.10	0.09	4.18	2,975
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.63	1.35	10.1	13.3	0.02	0.38	0.85	1.23	0.34	0.20	0.55	—	2,903	2,903	0.10	0.09	0.11	2,933
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.59	1.65	3.72	4.88	0.01	0.14	0.40	0.54	0.13	0.12	0.25	—	1,044	1,044	0.04	0.03	0.62	1,055
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.11	0.30	0.68	0.89	< 0.005	0.03	0.07	0.10	0.02	0.02	0.05	—	173	173	0.01	0.01	0.10	175
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## 2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	2.01	1.69	15.9	16.0	0.02	0.74	7.21	7.96	0.68	3.46	4.14	—	2,941	2,941	0.10	0.09	4.18	2,975
2025	1.54	49.9	9.51	13.5	0.02	0.33	0.85	1.18	0.30	0.20	0.51	—	2,920	2,920	0.10	0.09	3.86	2,953
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.63	1.35	10.1	13.3	0.02	0.38	0.85	1.23	0.34	0.20	0.55	—	2,903	2,903	0.10	0.09	0.11	2,933
2025	1.54	1.28	9.55	13.0	0.02	0.33	0.85	1.18	0.30	0.20	0.51	—	2,882	2,882	0.10	0.09	0.10	2,912
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.59	0.49	3.72	4.88	0.01	0.14	0.40	0.54	0.13	0.12	0.25	—	1,044	1,044	0.04	0.03	0.62	1,055
2025	0.34	1.65	2.12	2.94	< 0.005	0.07	0.18	0.26	0.07	0.04	0.11	—	634	634	0.02	0.02	0.36	640
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.11	0.09	0.68	0.89	< 0.005	0.03	0.07	0.10	0.02	0.02	0.05	—	173	173	0.01	0.01	0.10	175
2025	0.06	0.30	0.39	0.54	< 0.005	0.01	0.03	0.05	0.01	0.01	0.02	—	105	105	< 0.005	< 0.005	0.06	106

## 2.3. Construction Emissions by Year, Mitigated

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

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

2024	2.01	1.69	15.9	16.0	0.02	0.74	7.21	7.96	0.68	3.46	4.14	—	2,941	2,941	0.10	0.09	4.18	2,975
2025	1.54	49.9	9.51	13.5	0.02	0.33	0.85	1.18	0.30	0.20	0.51	—	2,920	2,920	0.10	0.09	3.86	2,953
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	1.63	1.35	10.1	13.3	0.02	0.38	0.85	1.23	0.34	0.20	0.55	—	2,903	2,903	0.10	0.09	0.11	2,933
2025	1.54	1.28	9.55	13.0	0.02	0.33	0.85	1.18	0.30	0.20	0.51	—	2,882	2,882	0.10	0.09	0.10	2,912
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.59	0.49	3.72	4.88	0.01	0.14	0.40	0.54	0.13	0.12	0.25	—	1,044	1,044	0.04	0.03	0.62	1,055
2025	0.34	1.65	2.12	2.94	< 0.005	0.07	0.18	0.26	0.07	0.04	0.11	—	634	634	0.02	0.02	0.36	640
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.11	0.09	0.68	0.89	< 0.005	0.03	0.07	0.10	0.02	0.02	0.05	—	173	173	0.01	0.01	0.10	175
2025	0.06	0.30	0.39	0.54	< 0.005	0.01	0.03	0.05	0.01	0.01	0.02	—	105	105	< 0.005	< 0.005	0.06	106

## 2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.85	3.49	1.10	14.3	0.02	0.04	2.12	2.16	0.03	0.54	0.57	35.9	3,040	3,076	3.78	0.11	9.43	3,214
Mit.	1.48	3.15	0.86	11.6	0.02	0.03	1.52	1.55	0.03	0.39	0.42	35.9	2,371	2,407	3.75	0.09	6.88	2,533
% Reduced	20%	10%	22%	19%	27%	11%	29%	28%	11%	29%	28%	—	22%	22%	1%	23%	27%	21%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.30	2.97	1.13	8.85	0.02	0.03	2.12	2.16	0.03	0.54	0.57	35.9	2,936	2,972	3.79	0.12	0.76	3,102
Mit.	0.94	2.63	0.87	6.35	0.02	0.03	1.52	1.54	0.03	0.39	0.41	35.9	2,292	2,328	3.75	0.09	0.69	2,449

% Reduced	28%	11%	23%	28%	27%	13%	29%	28%	12%	29%	28%	—	22%	22%	1%	23%	9%	21%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.60	3.25	1.12	11.9	0.02	0.03	1.99	2.03	0.03	0.51	0.54	35.9	2,857	2,893	3.78	0.11	4.18	3,026
Mit.	1.26	2.93	0.87	9.48	0.02	0.03	1.42	1.45	0.03	0.36	0.39	35.9	2,239	2,275	3.75	0.09	3.14	2,398
% Reduced	22%	10%	22%	20%	27%	11%	29%	28%	11%	29%	28%	—	22%	21%	1%	23%	25%	21%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.29	0.59	0.20	2.17	< 0.005	0.01	0.36	0.37	0.01	0.09	0.10	5.95	473	479	0.63	0.02	0.69	501
Mit.	0.23	0.54	0.16	1.73	< 0.005	0.01	0.26	0.27	0.01	0.07	0.07	5.95	371	377	0.62	0.01	0.52	397
% Reduced	22%	10%	22%	20%	27%	11%	29%	28%	11%	29%	28%	—	22%	21%	1%	23%	25%	21%

## 2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.29	1.18	0.83	9.33	0.02	0.01	2.12	2.14	0.01	0.54	0.55	—	2,341	2,341	0.11	0.09	8.90	2,380
Area	0.54	2.29	0.05	4.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	14.3	14.3	< 0.005	< 0.005	—	14.4
Energy	0.03	0.01	0.22	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	663	663	0.06	< 0.005	—	666
Water	—	—	—	—	—	—	—	—	—	—	—	6.46	21.9	28.4	0.66	0.02	—	49.8
Waste	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.94	0.00	—	103
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.53	0.53
Total	1.85	3.49	1.10	14.3	0.02	0.04	2.12	2.16	0.03	0.54	0.57	35.9	3,040	3,076	3.78	0.11	9.43	3,214



Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.28	1.17	0.91	8.74	0.02	0.01	2.12	2.14	0.01	0.54	0.55	—	2,251	2,251	0.12	0.10	0.23	2,283
Area	0.00	1.79	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.03	0.01	0.22	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	663	663	0.06	< 0.005	—	666
Water	—	—	—	—	—	—	—	—	—	—	—	6.46	21.9	28.4	0.66	0.02	—	49.8
Waste	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.94	0.00	—	103
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.53	0.53
Total	1.30	2.97	1.13	8.85	0.02	0.03	2.12	2.16	0.03	0.54	0.57	35.9	2,936	2,972	3.79	0.12	0.76	3,102
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.21	1.10	0.87	8.49	0.02	0.01	1.99	2.01	0.01	0.51	0.52	—	2,163	2,163	0.11	0.09	3.65	2,196
Area	0.37	2.13	0.03	3.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.82	9.82	< 0.005	< 0.005	—	9.85
Energy	0.03	0.01	0.22	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	663	663	0.06	< 0.005	—	666
Water	—	—	—	—	—	—	—	—	—	—	—	6.46	21.9	28.4	0.66	0.02	—	49.8
Waste	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.94	0.00	—	103
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.53	0.53
Total	1.60	3.25	1.12	11.9	0.02	0.03	1.99	2.03	0.03	0.51	0.54	35.9	2,857	2,893	3.78	0.11	4.18	3,026
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.22	0.20	0.16	1.55	< 0.005	< 0.005	0.36	0.37	< 0.005	0.09	0.09	—	358	358	0.02	0.02	0.60	364
Area	0.07	0.39	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.63	1.63	< 0.005	< 0.005	—	1.63
Energy	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	110	110	0.01	< 0.005	—	110
Water	—	—	—	—	—	—	—	—	—	—	—	1.07	3.63	4.70	0.11	< 0.005	—	8.24
Waste	—	—	—	—	—	—	—	—	—	—	—	4.88	0.00	4.88	0.49	0.00	—	17.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
Total	0.29	0.59	0.20	2.17	< 0.005	0.01	0.36	0.37	0.01	0.09	0.10	5.95	473	479	0.63	0.02	0.69	501

## 2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.92	0.84	0.59	6.66	0.02	0.01	1.52	1.53	0.01	0.39	0.39	—	1,671	1,671	0.08	0.07	6.35	1,699
Area	0.54	2.29	0.05	4.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	14.3	14.3	< 0.005	< 0.005	—	14.4
Energy	0.03	0.01	0.22	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	663	663	0.06	< 0.005	—	666
Water	—	—	—	—	—	—	—	—	—	—	—	6.46	21.9	28.4	0.66	0.02	—	49.8
Waste	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.94	0.00	—	103
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.53	0.53
Total	1.48	3.15	0.86	11.6	0.02	0.03	1.52	1.55	0.03	0.39	0.42	35.9	2,371	2,407	3.75	0.09	6.88	2,533
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.91	0.83	0.65	6.24	0.02	0.01	1.52	1.53	0.01	0.39	0.39	—	1,607	1,607	0.08	0.07	0.16	1,630
Area	0.00	1.79	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.03	0.01	0.22	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	663	663	0.06	< 0.005	—	666
Water	—	—	—	—	—	—	—	—	—	—	—	6.46	21.9	28.4	0.66	0.02	—	49.8
Waste	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.94	0.00	—	103
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.53	0.53
Total	0.94	2.63	0.87	6.35	0.02	0.03	1.52	1.54	0.03	0.39	0.41	35.9	2,292	2,328	3.75	0.09	0.69	2,449
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.86	0.79	0.62	6.06	0.02	0.01	1.42	1.43	0.01	0.36	0.37	—	1,544	1,544	0.08	0.07	2.61	1,568
Area	0.37	2.13	0.03	3.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	9.82	9.82	< 0.005	< 0.005	—	9.85
Energy	0.03	0.01	0.22	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	663	663	0.06	< 0.005	—	666
Water	—	—	—	—	—	—	—	—	—	—	—	6.46	21.9	28.4	0.66	0.02	—	49.8

Waste	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.94	0.00	—	103
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.53	0.53
Total	1.26	2.93	0.87	9.48	0.02	0.03	1.42	1.45	0.03	0.36	0.39	35.9	2,239	2,275	3.75	0.09	3.14	2,398
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.16	0.14	0.11	1.11	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	—	256	256	0.01	0.01	0.43	260
Area	0.07	0.39	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.63	1.63	< 0.005	< 0.005	—	1.63
Energy	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	110	110	0.01	< 0.005	—	110
Water	—	—	—	—	—	—	—	—	—	—	—	1.07	3.63	4.70	0.11	< 0.005	—	8.24
Waste	—	—	—	—	—	—	—	—	—	—	—	4.88	0.00	4.88	0.49	0.00	—	17.1
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
Total	0.23	0.54	0.16	1.73	< 0.005	0.01	0.26	0.27	0.01	0.07	0.07	5.95	371	377	0.62	0.01	0.52	397

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	1.43	13.7	12.9	0.02	0.65	—	0.65	0.59	—	0.59	—	2,064	2,064	0.08	0.02	—	2,071
Dust From Material Movement	—	—	—	—	—	—	6.26	6.26	—	3.00	3.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.87	1.87	< 0.005	< 0.005	—	1.88
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	102	102	< 0.005	< 0.005	0.42	103
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.2. Site Preparation (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	1.43	13.7	12.9	0.02	0.65	—	0.65	0.59	—	0.59	—	2,064	2,064	0.08	0.02	—	2,071
Dust From Material Movement	—	—	—	—	—	—	6.26	6.26	—	3.00	3.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.3	11.3	< 0.005	< 0.005	—	11.3

Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.87	1.87	< 0.005	< 0.005	—	1.88
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	102	102	< 0.005	< 0.005	0.42	103
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.54
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
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3.3. Grading (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.96	1.65	15.9	15.4	0.02	0.74	—	0.74	0.68	—	0.68	—	2,454	2,454	0.10	0.02	—	2,462
Dust From Material Movement	—	—	—	—	—	—	7.08	7.08	—	3.42	3.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.9	26.9	< 0.005	< 0.005	—	27.0
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.45	4.45	< 0.005	< 0.005	—	4.47

Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.60	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	< 0.005	< 0.005	0.56	138
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.24
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.4. Grading (2024) - Mitigated

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

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



Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.96	1.65	15.9	15.4	0.02	0.74	—	0.74	0.68	—	0.68	—	2,454	2,454	0.10	0.02	—	2,462
Dust From Material Movement	—	—	—	—	—	—	7.08	7.08	—	3.42	3.42	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	0.17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	26.9	26.9	< 0.005	< 0.005	—	27.0
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.45	4.45	< 0.005	< 0.005	—	4.47
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.04	0.60	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	136	136	< 0.005	< 0.005	0.56	138
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.43	1.43	< 0.005	< 0.005	< 0.005	1.45
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.24	0.24	< 0.005	< 0.005	< 0.005	0.24
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.5. Building Construction (2024) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36	1.13	9.44	10.1	0.02	0.37	—	0.37	0.34	—	0.34	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36	1.13	9.44	10.1	0.02	0.37	—	0.37	0.34	—	0.34	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.25	3.48	0.01	0.13	—	0.13	0.12	—	0.12	—	620	620	0.03	0.01	—	622
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.59	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	—	103	103	< 0.005	< 0.005	—	103
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	0.23	3.48	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	785	785	0.01	0.03	3.22	797
Vendor	0.03	0.01	0.38	0.19	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	355	355	0.02	0.05	0.96	371
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	0.25	3.00	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	747	747	0.01	0.03	0.08	756
Vendor	0.03	0.01	0.39	0.19	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	355	355	0.02	0.05	0.02	370
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.08	0.07	0.09	1.09	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	261	261	< 0.005	0.01	0.48	264
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	122	122	0.01	0.02	0.14	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.2	43.2	< 0.005	< 0.005	0.08	43.8
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.2	20.2	< 0.005	< 0.005	0.02	21.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.6. Building Construction (2024) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36	1.13	9.44	10.1	0.02	0.37	—	0.37	0.34	—	0.34	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.36	1.13	9.44	10.1	0.02	0.37	—	0.37	0.34	—	0.34	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.39	3.25	3.48	0.01	0.13	—	0.13	0.12	—	0.12	—	620	620	0.03	0.01	—	622

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.59	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	—	103	103	< 0.005	< 0.005	—	103
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	0.23	3.48	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	785	785	0.01	0.03	3.22	797
Vendor	0.03	0.01	0.38	0.19	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	355	355	0.02	0.05	0.96	371
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	0.25	3.00	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	747	747	0.01	0.03	0.08	756
Vendor	0.03	0.01	0.39	0.19	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	355	355	0.02	0.05	0.02	370
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	1.09	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	261	261	< 0.005	0.01	0.48	264
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	122	122	0.01	0.02	0.14	128
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.02	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	43.2	43.2	< 0.005	< 0.005	0.08	43.8
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.2	20.2	< 0.005	< 0.005	0.02	21.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 3.7. Building Construction (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	8.95	10.0	0.02	0.33	—	0.33	0.30	—	0.30	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	8.95	10.0	0.02	0.33	—	0.33	0.30	—	0.30	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.84	2.06	< 0.005	0.07	—	0.07	0.06	—	0.06	—	370	370	0.02	< 0.005	—	371
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.34	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	61.3	61.3	< 0.005	< 0.005	—	61.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.20	3.24	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	769	769	0.01	0.03	2.91	780
Vendor	0.03	0.01	0.36	0.18	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	349	349	0.02	0.05	0.95	365
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.20	0.23	2.80	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	732	732	0.01	0.03	0.08	740
Vendor	0.03	0.01	0.38	0.18	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	349	349	0.02	0.05	0.02	364
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.60	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	152	152	< 0.005	0.01	0.26	154
Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	71.8	71.8	< 0.005	0.01	0.08	74.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.2	25.2	< 0.005	< 0.005	0.04	25.6
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	0.01	12.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.8. Building Construction (2025) - Mitigated

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

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

Off-Road Equipment	1.28	1.07	8.95	10.0	0.02	0.33	—	0.33	0.30	—	0.30	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	8.95	10.0	0.02	0.33	—	0.33	0.30	—	0.30	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.26	0.22	1.84	2.06	< 0.005	0.07	—	0.07	0.06	—	0.06	—	370	370	0.02	< 0.005	—	371
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.34	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	61.3	61.3	< 0.005	< 0.005	—	61.5
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.21	0.20	3.24	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	769	769	0.01	0.03	2.91	780
Vendor	0.03	0.01	0.36	0.18	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	349	349	0.02	0.05	0.95	365
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.20	0.23	2.80	0.00	0.00	0.76	0.76	0.00	0.18	0.18	—	732	732	0.01	0.03	0.08	740



Vendor	0.03	0.01	0.38	0.18	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	349	349	0.02	0.05	0.02	364
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.60	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	152	152	< 0.005	0.01	0.26	154
Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	71.8	71.8	< 0.005	0.01	0.08	74.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.2	25.2	< 0.005	< 0.005	0.04	25.6
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.9	11.9	< 0.005	< 0.005	0.01	12.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.9. Paving (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.49	4.63	6.50	0.01	0.20	—	0.20	0.19	—	0.19	—	992	992	0.04	0.01	—	995
Paving	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.01	0.13	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27.2	27.2	< 0.005	< 0.005	—	27.3
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.50	4.50	< 0.005	< 0.005	—	4.51
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.70	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	166	166	< 0.005	0.01	0.63	168
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.39	4.39	< 0.005	< 0.005	0.01	4.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.74
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 3.10. Paving (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.59	0.49	4.63	6.50	0.01	0.20	—	0.20	0.19	—	0.19	—	992	992	0.04	0.01	—	995
Paving	—	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.13	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	27.2	27.2	< 0.005	< 0.005	—	27.3
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.50	4.50	< 0.005	< 0.005	—	4.51
Paving	—	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.04	0.04	0.70	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	166	166	< 0.005	0.01	0.63	168
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.39	4.39	< 0.005	< 0.005	0.01	4.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.74
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.11. Architectural Coating (2025) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	—	49.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.66	3.66	< 0.005	< 0.005	—	3.67
Architect ural Coatings	—	1.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.61	0.61	< 0.005	< 0.005	—	0.61
Architect ural Coatings	—	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.65	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	154	154	< 0.005	0.01	0.58	156
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.07	4.07	< 0.005	< 0.005	0.01	4.12

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

### 3.12. Architectural Coating (2025) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.88	1.14	< 0.005	0.03	—	0.03	0.03	—	0.03	—	134	134	0.01	< 0.005	—	134
Architect ural Coatings	—	49.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.66	3.66	< 0.005	< 0.005	—	3.67
Architect ural Coatings	—	1.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.61	0.61	< 0.005	< 0.005	—	0.61
Architectural Coatings	—	0.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.65	0.00	0.00	0.15	0.15	0.00	0.04	0.04	—	154	154	< 0.005	0.01	0.58	156
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.07	4.07	< 0.005	< 0.005	0.01	4.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.68
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	1.29	1.18	0.83	9.33	0.02	0.01	2.12	2.14	0.01	0.54	0.55	—	2,341	2,341	0.11	0.09	8.90	2,380
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.29	1.18	0.83	9.33	0.02	0.01	2.12	2.14	0.01	0.54	0.55	—	2,341	2,341	0.11	0.09	8.90	2,380
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	1.28	1.17	0.91	8.74	0.02	0.01	2.12	2.14	0.01	0.54	0.55	—	2,251	2,251	0.12	0.10	0.23	2,283
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00



Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.28	1.17	0.91	8.74	0.02	0.01	2.12	2.14	0.01	0.54	0.55	—	2,251	2,251	0.12	0.10	0.23	2,283
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.22	0.20	0.16	1.55	< 0.005	< 0.005	0.36	0.37	< 0.005	0.09	0.09	—	358	358	0.02	0.02	0.60	364
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.22	0.20	0.16	1.55	< 0.005	< 0.005	0.36	0.37	< 0.005	0.09	0.09	—	358	358	0.02	0.02	0.60	364

#### 4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.92	0.84	0.59	6.66	0.02	0.01	1.52	1.53	0.01	0.39	0.39	—	1,671	1,671	0.08	0.07	6.35	1,699

Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.92	0.84	0.59	6.66	0.02	0.01	1.52	1.53	0.01	0.39	0.39	—	1,671	1,671	0.08	0.07	6.35	1,699
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	0.91	0.83	0.65	6.24	0.02	0.01	1.52	1.53	0.01	0.39	0.39	—	1,607	1,607	0.08	0.07	0.16	1,630
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.91	0.83	0.65	6.24	0.02	0.01	1.52	1.53	0.01	0.39	0.39	—	1,607	1,607	0.08	0.07	0.16	1,630
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	0.16	0.14	0.11	1.11	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	—	256	256	0.01	0.01	0.43	260
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.16	0.14	0.11	1.11	< 0.005	< 0.005	0.26	0.26	< 0.005	0.07	0.07	—	256	256	0.01	0.01	0.43	260

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	238	238	0.02	< 0.005	—	239
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	63.0	63.0	0.01	< 0.005	—	63.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64	< 0.005	< 0.005	—	3.67
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	78.7	78.7	0.01	< 0.005	—	79.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	383	383	0.04	< 0.005	—	386
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	238	238	0.02	< 0.005	—	239

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	63.0	63.0	0.01	< 0.005	—	63.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64	< 0.005	< 0.005	—	3.67
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	78.7	78.7	0.01	< 0.005	—	79.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	383	383	0.04	< 0.005	—	386
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	39.4	39.4	< 0.005	< 0.005	—	39.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	10.4	10.4	< 0.005	< 0.005	—	10.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.60	0.60	< 0.005	< 0.005	—	0.61
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	13.0	13.0	< 0.005	< 0.005	—	13.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	63.5	63.5	0.01	< 0.005	—	63.8

#### 4.2.2. Electricity Emissions By Land Use - Mitigated

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

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

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	238	238	0.02	< 0.005	—	239
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	63.0	63.0	0.01	< 0.005	—	63.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64	< 0.005	< 0.005	—	3.67
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	78.7	78.7	0.01	< 0.005	—	79.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	383	383	0.04	< 0.005	—	386
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	238	238	0.02	< 0.005	—	239
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	63.0	63.0	0.01	< 0.005	—	63.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3.64	3.64	< 0.005	< 0.005	—	3.67
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	78.7	78.7	0.01	< 0.005	—	79.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	383	383	0.04	< 0.005	—	386
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	39.4	39.4	< 0.005	< 0.005	—	39.6

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	—	10.4	10.4	< 0.005	< 0.005	—	10.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.60	0.60	< 0.005	< 0.005	—	0.61
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	13.0	13.0	< 0.005	< 0.005	—	13.1
Total	—	—	—	—	—	—	—	—	—	—	—	—	63.5	63.5	0.01	< 0.005	—	63.8

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.02	0.01	0.19	0.08	< 0.005	0.02	—	0.02	0.02	—	0.02	—	242	242	0.02	< 0.005	—	243
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.6	37.6	< 0.005	< 0.005	—	37.7
Total	0.03	0.01	0.22	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	280	280	0.02	< 0.005	—	280
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme Mid Rise	0.02	0.01	0.19	0.08	< 0.005	0.02	—	0.02	0.02	—	0.02	—	242	242	0.02	< 0.005	—	243
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.6	37.6	< 0.005	< 0.005	—	37.7
Total	0.03	0.01	0.22	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	280	280	0.02	< 0.005	—	280
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.1	40.1	< 0.005	< 0.005	—	40.2
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.22	6.22	< 0.005	< 0.005	—	6.23
Total	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.3	46.3	< 0.005	< 0.005	—	46.4

#### 4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Apartme Mid Rise	0.02	0.01	0.19	0.08	< 0.005	0.02	—	0.02	0.02	—	0.02	—	242	242	0.02	< 0.005	—	243
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.6	37.6	< 0.005	< 0.005	—	37.7
Total	0.03	0.01	0.22	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	280	280	0.02	< 0.005	—	280
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	0.02	0.01	0.19	0.08	< 0.005	0.02	—	0.02	0.02	—	0.02	—	242	242	0.02	< 0.005	—	243
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.6	37.6	< 0.005	< 0.005	—	37.7
Total	0.03	0.01	0.22	0.11	< 0.005	0.02	—	0.02	0.02	—	0.02	—	280	280	0.02	< 0.005	—	280
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.1	40.1	< 0.005	< 0.005	—	40.2
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00



Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.22	6.22	< 0.005	< 0.005	—	6.23
Total	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.3	46.3	< 0.005	< 0.005	—	46.4

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.54	0.51	0.05	4.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.3	14.3	< 0.005	< 0.005	—	14.4
Total	0.54	2.29	0.05	4.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	14.3	14.3	< 0.005	< 0.005	—	14.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00

Consumer Products	—	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	1.79	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.07	0.06	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.63	1.63	< 0.005	< 0.005	—	1.63
Total	0.07	0.39	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.63	1.63	< 0.005	< 0.005	—	1.63

#### 4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	0.54	0.51	0.05	4.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.3	14.3	< 0.005	< 0.005	—	14.4
Total	0.54	2.29	0.05	4.83	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	14.3	14.3	< 0.005	< 0.005	—	14.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	1.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	1.79	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.07	0.06	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.63	1.63	< 0.005	< 0.005	—	1.63
Total	0.07	0.39	0.01	0.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	1.63	1.63	< 0.005	< 0.005	—	1.63

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4.89	16.6	21.5	0.50	0.01	—	37.7
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.57	5.34	6.92	0.16	< 0.005	—	12.1
Total	—	—	—	—	—	—	—	—	—	—	—	6.46	21.9	28.4	0.66	0.02	—	49.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4.89	16.6	21.5	0.50	0.01	—	37.7
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.57	5.34	6.92	0.16	< 0.005	—	12.1
Total	—	—	—	—	—	—	—	—	—	—	—	6.46	21.9	28.4	0.66	0.02	—	49.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartme Mid Rise	—	—	—	—	—	—	—	—	—	—	—	0.81	2.75	3.56	0.08	< 0.005	—	6.24
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.26	0.88	1.15	0.03	< 0.005	—	2.01
Total	—	—	—	—	—	—	—	—	—	—	—	1.07	3.63	4.70	0.11	< 0.005	—	8.24

#### 4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4.89	16.6	21.5	0.50	0.01	—	37.7
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.57	5.34	6.92	0.16	< 0.005	—	12.1
Total	—	—	—	—	—	—	—	—	—	—	—	6.46	21.9	28.4	0.66	0.02	—	49.8

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4.89	16.6	21.5	0.50	0.01	—	37.7
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	1.57	5.34	6.92	0.16	< 0.005	—	12.1
Total	—	—	—	—	—	—	—	—	—	—	—	6.46	21.9	28.4	0.66	0.02	—	49.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	0.81	2.75	3.56	0.08	< 0.005	—	6.24
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.26	0.88	1.15	0.03	< 0.005	—	2.01
Total	—	—	—	—	—	—	—	—	—	—	—	1.07	3.63	4.70	0.11	< 0.005	—	8.24

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	27.1	0.00	27.1	2.71	0.00	—	95.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.32	0.00	2.32	0.23	0.00	—	8.11
Total	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.94	0.00	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	27.1	0.00	27.1	2.71	0.00	—	95.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.32	0.00	2.32	0.23	0.00	—	8.11
Total	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.94	0.00	—	103

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4.49	0.00	4.49	0.45	0.00	—	15.7
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	0.00	—	1.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.88	0.00	4.88	0.49	0.00	—	17.1

#### 4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	27.1	0.00	27.1	2.71	0.00	—	95.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.32	0.00	2.32	0.23	0.00	—	8.11



Total	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.94	0.00	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	27.1	0.00	27.1	2.71	0.00	—	95.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	2.32	0.00	2.32	0.23	0.00	—	8.11
Total	—	—	—	—	—	—	—	—	—	—	—	29.5	0.00	29.5	2.94	0.00	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartme nts Mid Rise	—	—	—	—	—	—	—	—	—	—	—	4.49	0.00	4.49	0.45	0.00	—	15.7
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.38	0.00	0.38	0.04	0.00	—	1.34
Total	—	—	—	—	—	—	—	—	—	—	—	4.88	0.00	4.88	0.49	0.00	—	17.1

## 4.6. Refrigerant Emissions by Land Use

## 4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.52	0.52
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.53	0.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.52	0.52
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.53	0.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09

## 4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.52	0.52
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.53	0.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.52	0.52
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.53	0.53
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.09	0.09

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

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

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

### 4.7.2. Mitigated

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

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

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

## 4.8. Stationary Emissions By Equipment Type

### 4.8.1. Unmitigated

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

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

### 4.8.2. Mitigated

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

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

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

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

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

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

### 4.9.2. Mitigated

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

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

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

#### 4.10. Soil Carbon Accumulation By Vegetation Type

##### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

#### 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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



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

#### 4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

#### 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	6/30/2024	7/2/2024	5.00	2.00	—
Grading	Grading	7/3/2024	7/8/2024	5.00	4.00	—
Building Construction	Building Construction	7/9/2024	4/15/2025	5.00	200	—
Paving	Paving	4/16/2025	4/30/2025	5.00	10.0	—
Architectural Coating	Architectural Coating	5/1/2025	5/15/2025	5.00	10.0	—

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Cranes	Diesel	Average	1.00	6.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Cranes	Diesel	Average	1.00	6.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	57.9	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	11.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	11.6	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT

Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

### 5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	57.9	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	11.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	11.6	18.5	LDA,LDT1,LDT2

Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	146,687	48,896	6,935	2,312	261

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	1.88	0.00	—
Grading	—	—	4.00	0.00	—
Paving	0.00	0.00	0.00	0.00	0.10

### 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%



Enclosed Parking with Elevator	0.00	100%
Parking Lot	0.10	100%
General Office Building	0.00	0%

## 5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

## 5.9. Operational Mobile Sources

### 5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	370	334	278	128,355	3,003	2,710	2,257	1,041,828
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	264	238	199	91,645	2,144	1,935	1,612	743,865
Enclosed Parking with Elevator	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	68
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	68

Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
146686.94999999998	48,896	6,935	2,312	261

### 5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

### 5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBtu/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBtu/yr)
Apartments Mid Rise	249,277	349	0.0330	0.0040	755,265
Enclosed Parking with Elevator	65,907	349	0.0330	0.0040	0.00

Parking Lot	3,816	349	0.0330	0.0040	0.00
General Office Building	82,383	349	0.0330	0.0040	117,177

### 5.11.2. Mitigated

#### Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	249,277	349	0.0330	0.0040	755,265
Enclosed Parking with Elevator	65,907	349	0.0330	0.0040	0.00
Parking Lot	3,816	349	0.0330	0.0040	0.00
General Office Building	82,383	349	0.0330	0.0040	117,177

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	2,551,744	0.00
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00
General Office Building	821,663	0.00

### 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	2,551,744	0.00
Enclosed Parking with Elevator	0.00	0.00
Parking Lot	0.00	0.00
General Office Building	821,663	0.00

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	50.4	—
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—
General Office Building	4.30	—

### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	50.4	—
Enclosed Parking with Elevator	0.00	—
Parking Lot	0.00	—
General Office Building	4.30	—

## 5.14. Operational Refrigeration and Air Conditioning Equipment

### 5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

### 5.15. Operational Off-Road Equipment

#### 5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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#### 5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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### 5.16. Stationary Sources

#### 5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)
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5.17. User Defined

Equipment Type	Fuel Type
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5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
--------------------------	----------------------	---------------	-------------

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
--------------------	---------------	-------------

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

### 5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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### 5.18.2.2. Mitigated

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

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	13.1	annual days of extreme heat
Extreme Precipitation	4.30	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
----------------	----------------	-------------------	-------------------------	---------------------



Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

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

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	55.4
AQ-PM	87.8
AQ-DPM	88.6
Drinking Water	31.4
Lead Risk Housing	66.6
Pesticides	0.00
Toxic Releases	94.9
Traffic	84.1
Effect Indicators	—
CleanUp Sites	63.9
Groundwater	43.8
Haz Waste Facilities/Generators	88.7
Impaired Water Bodies	0.00
Solid Waste	42.3
Sensitive Population	—
Asthma	45.1
Cardio-vascular	66.6
Low Birth Weights	70.4
Socioeconomic Factor Indicators	—

Education	78.9
Housing	79.9
Linguistic	53.9
Poverty	68.5
Unemployment	9.72

## 7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	20.01796484
Employed	76.78686
Median HI	32.24688823
Education	—
Bachelor's or higher	37.28987553
High school enrollment	9.880662133
Preschool enrollment	16.42499679
Transportation	—
Auto Access	45.25856538
Active commuting	76.04260234
Social	—
2-parent households	69.63941999
Voting	7.4554087
Neighborhood	—
Alcohol availability	20.35159759
Park access	81.35506224
Retail density	51.75157192

Supermarket access	64.64776081
Tree canopy	30.12960349
Housing	—
Homeownership	17.77235981
Housing habitability	16.61747722
Low-inc homeowner severe housing cost burden	20.06929296
Low-inc renter severe housing cost burden	52.40600539
Uncrowded housing	10.34261517
Health Outcomes	—
Insured adults	21.00603105
Arthritis	0.0
Asthma ER Admissions	73.8
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	73.0
Cognitively Disabled	98.7
Physically Disabled	62.2
Heart Attack ER Admissions	40.4
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0

Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	15.5
Elderly	91.2
English Speaking	36.6
Foreign-born	81.8
Outdoor Workers	32.4
Climate Change Adaptive Capacity	—
Impervious Surface Cover	29.7
Traffic Density	97.0
Traffic Access	23.0
Other Indices	—
Hardship	79.4
Other Decision Support	—
2016 Voting	41.7

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	81.0
Healthy Places Index Score for Project Location (b)	29.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

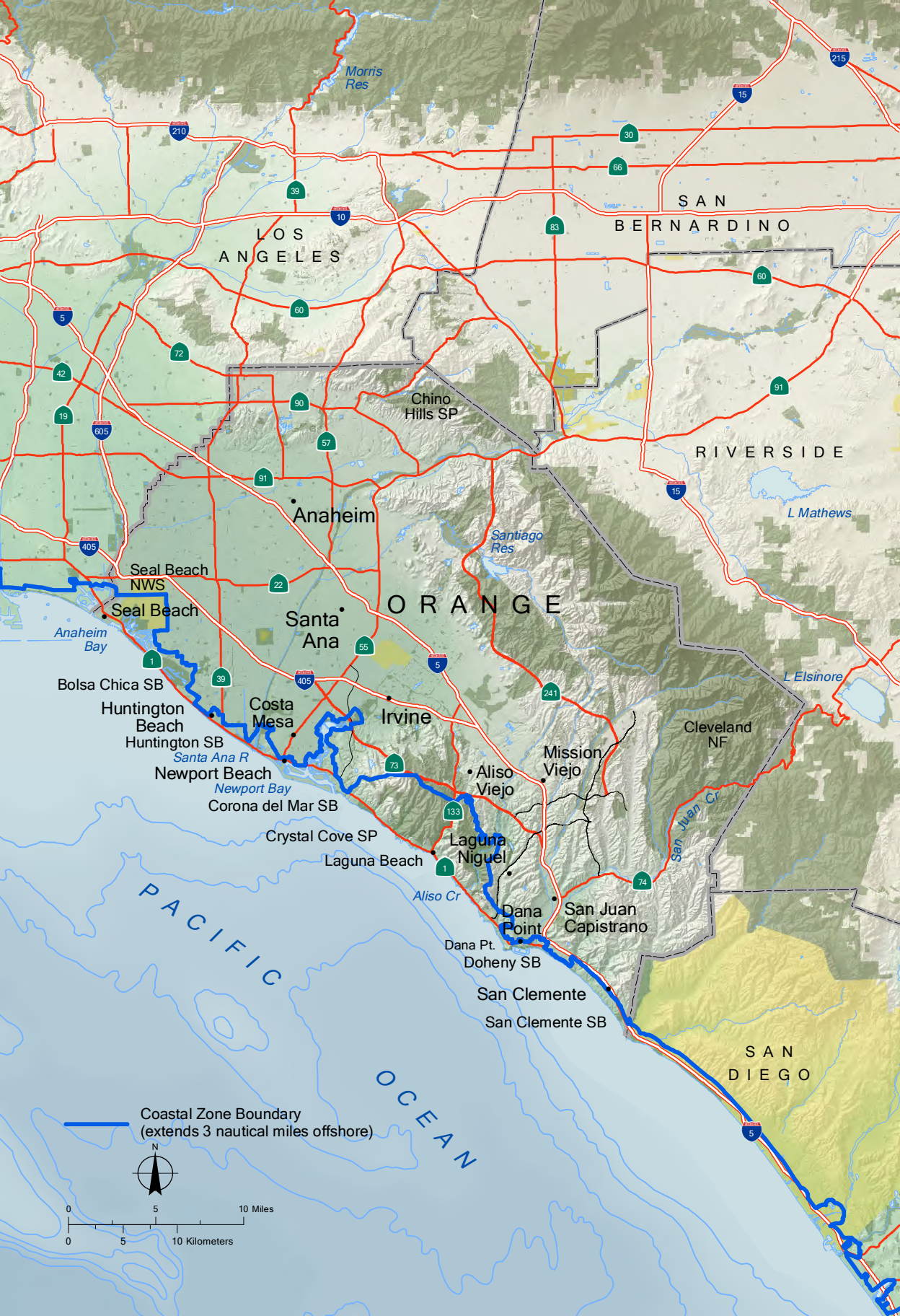
7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Project proposes 68 multifamily units, associated amenities, and 72 parking spaces
Construction: Construction Phases	No demolition required.
Operations: Vehicle Data	Default trip rates assumed for apartments, which is conservative based on persons served by the project
Operations: Hearths	No fireplaces or wood stoves

## **Attachment 9. Coastal Zone Management Map**





## **Attachment 10. IPaC Report**

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

## Location

☎ (760) 431-9440  
📠 (760) 431-5901

2177 Salk Avenue - Suite 250  
Carlsbad, CA 92008-7385

NOT FOR CONSULTATION

# Endangered species

**This resource list is for informational purposes only and does not constitute an analysis of project level impacts.**

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries<sup>2</sup>).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

- 
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

## Birds

NAME	STATUS
<p>Coastal California Gnatcatcher <i>Polioptila californica californica</i></p> <p>Wherever found</p> <p>There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.</p> <p><a href="https://ecos.fws.gov/ecp/species/8178">https://ecos.fws.gov/ecp/species/8178</a></p>	Threatened
<p>Least Bell's Vireo <i>Vireo bellii pusillus</i></p> <p>Wherever found</p> <p>There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.</p> <p><a href="https://ecos.fws.gov/ecp/species/5945">https://ecos.fws.gov/ecp/species/5945</a></p>	Endangered

## Reptiles

NAME	STATUS
<p>Southwestern Pond Turtle <i>Actinemys pallida</i></p> <p>Wherever found</p> <p>No critical habitat has been designated for this species.</p> <p><a href="https://ecos.fws.gov/ecp/species/4768">https://ecos.fws.gov/ecp/species/4768</a></p>	Proposed Threatened

## Fishes

NAME	STATUS
<p>Santa Ana Sucker <i>Catostomus santaanae</i></p> <p>There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat.</p> <p><a href="https://ecos.fws.gov/ecp/species/3785">https://ecos.fws.gov/ecp/species/3785</a></p>	Threatened

## Insects

NAME	STATUS
------	--------

Monarch Butterfly *Danaus plexippus*

Candidate

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/9743>

## Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

## Bald & Golden Eagles

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below.

Specifically, please review the "[Supplemental Information on Migratory Birds and Eagles](#)".

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds  
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide conservation measures for birds  
<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC  
<https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

There are bald and/or golden eagles in your project area.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
<b>Bald Eagle</b> <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jan 1 to Aug 31
<b>Golden Eagle</b> <i>Aquila chrysaetos</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <a href="https://ecos.fws.gov/ecp/species/1680">https://ecos.fws.gov/ecp/species/1680</a>	Breeds Jan 1 to Aug 31

## Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

### Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

- To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .
- The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

### Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

### Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

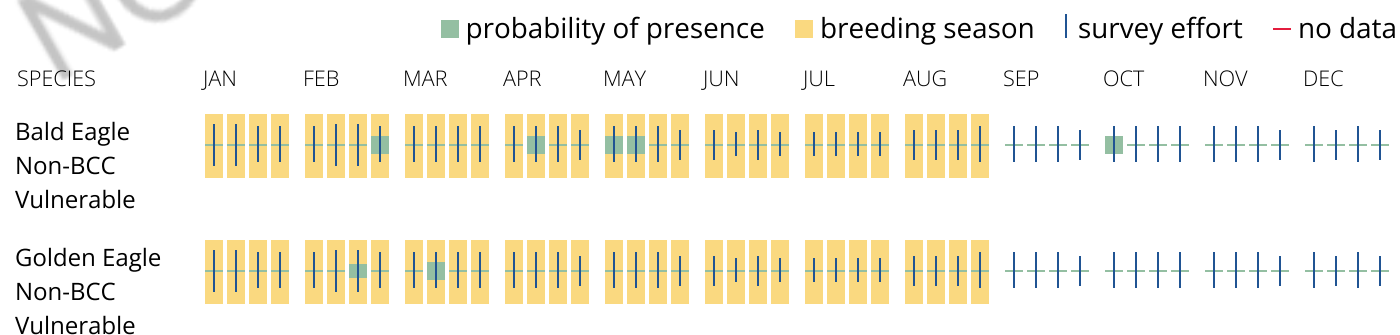
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

### No Data (—)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



### What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project



intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply). To see a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the [Eagle Act](#) should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

## Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>

- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
<b>Allen's Hummingbird</b> <i>Selasphorus sasin</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <a href="https://ecos.fws.gov/ecp/species/9637">https://ecos.fws.gov/ecp/species/9637</a>	Breeds Feb 1 to Jul 15
<b>Bald Eagle</b> <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jan 1 to Aug 31
<b>Belding's Savannah Sparrow</b> <i>Passerculus sandwichensis beldingi</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <a href="https://ecos.fws.gov/ecp/species/8">https://ecos.fws.gov/ecp/species/8</a>	Breeds Apr 1 to Aug 15

**Black Skimmer** *Rynchops niger*

Breeds May 20 to Sep 15

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/5234>

**Black Tern** *Chlidonias niger*

Breeds May 15 to Aug 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/3093>

**Bullock's Oriole** *Icterus bullockii*

Breeds Mar 21 to Jul 25

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

**California Gull** *Larus californicus*

Breeds Mar 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**California Thrasher** *Toxostoma redivivum*

Breeds Jan 1 to Jul 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**Clark's Grebe** *Aechmophorus clarkii*

Breeds Jun 1 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**Common Yellowthroat** *Geothlypis trichas sinuosa*

Breeds May 20 to Jul 31

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/2084>

**Golden Eagle** *Aquila chrysaetos*

Breeds Jan 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1680>

**Lawrence's Goldfinch** *Carduelis lawrencei*

Breeds Mar 20 to Sep 20

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9464>

**Long-eared Owl** *asio otus*

Breeds Mar 1 to Jul 15

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/3631>

**Marbled Godwit** *Limosa fedoa*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9481>

**Nuttall's Woodpecker** *Picoides nuttallii*

Breeds Apr 1 to Jul 20

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/9410>

**Oak Titmouse** *Baeolophus inornatus*

Breeds Mar 15 to Jul 15

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9656>

**Olive-sided Flycatcher** *Contopus cooperi*

Breeds May 20 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/3914>

**Short-billed Dowitcher** *Limnodromus griseus*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9480>

**Western Grebe** *aechmophorus occidentalis*

Breeds Jun 1 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/6743>

**Willet** *Tringa semipalmata*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

**Wrentit** *Chamaea fasciata*

Breeds Mar 15 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

# Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

## Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is  $0.25/0.25 = 1$ ; at week 20 it is  $0.05/0.25 = 0.2$ .
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

## Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

## Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

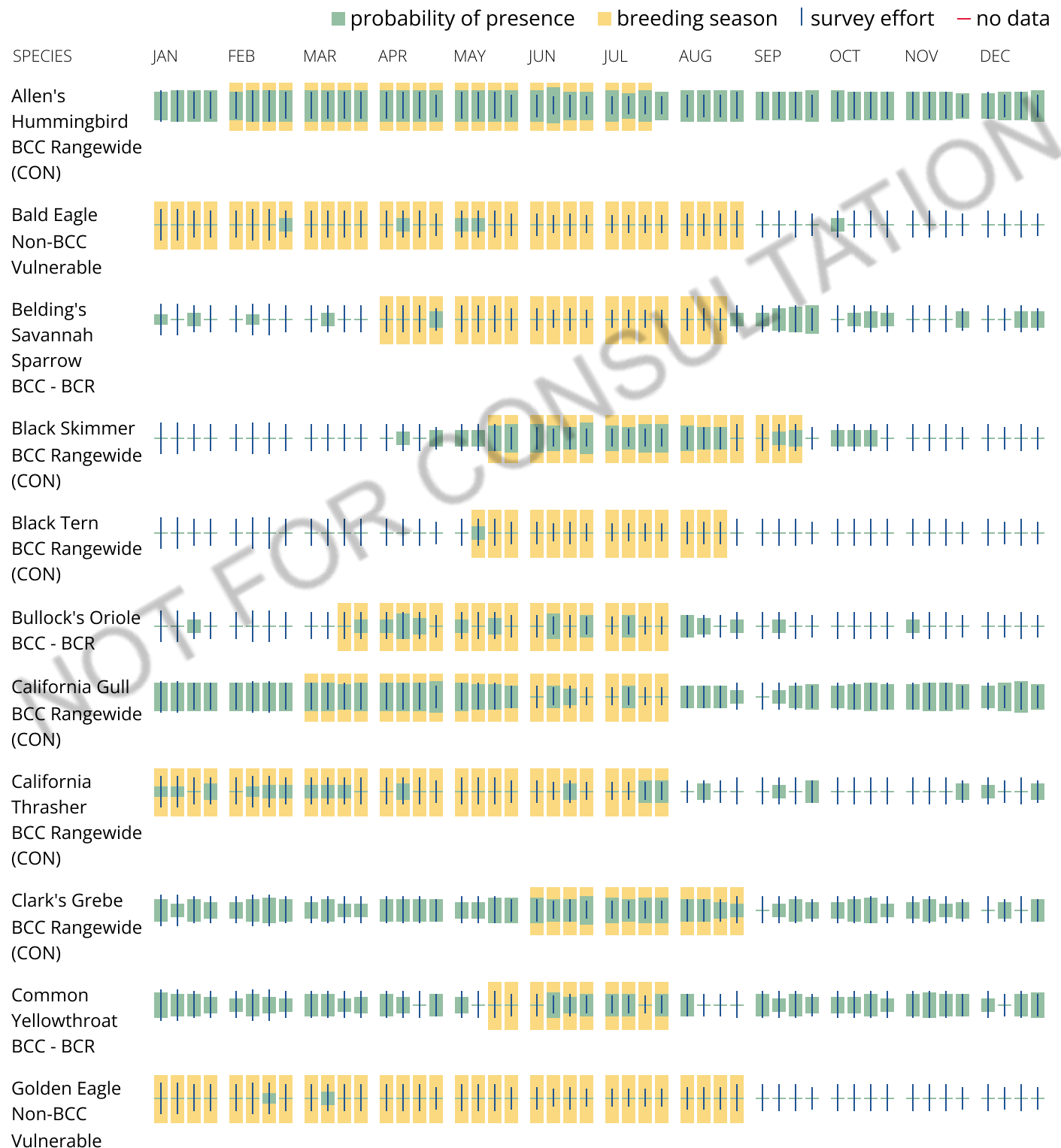
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

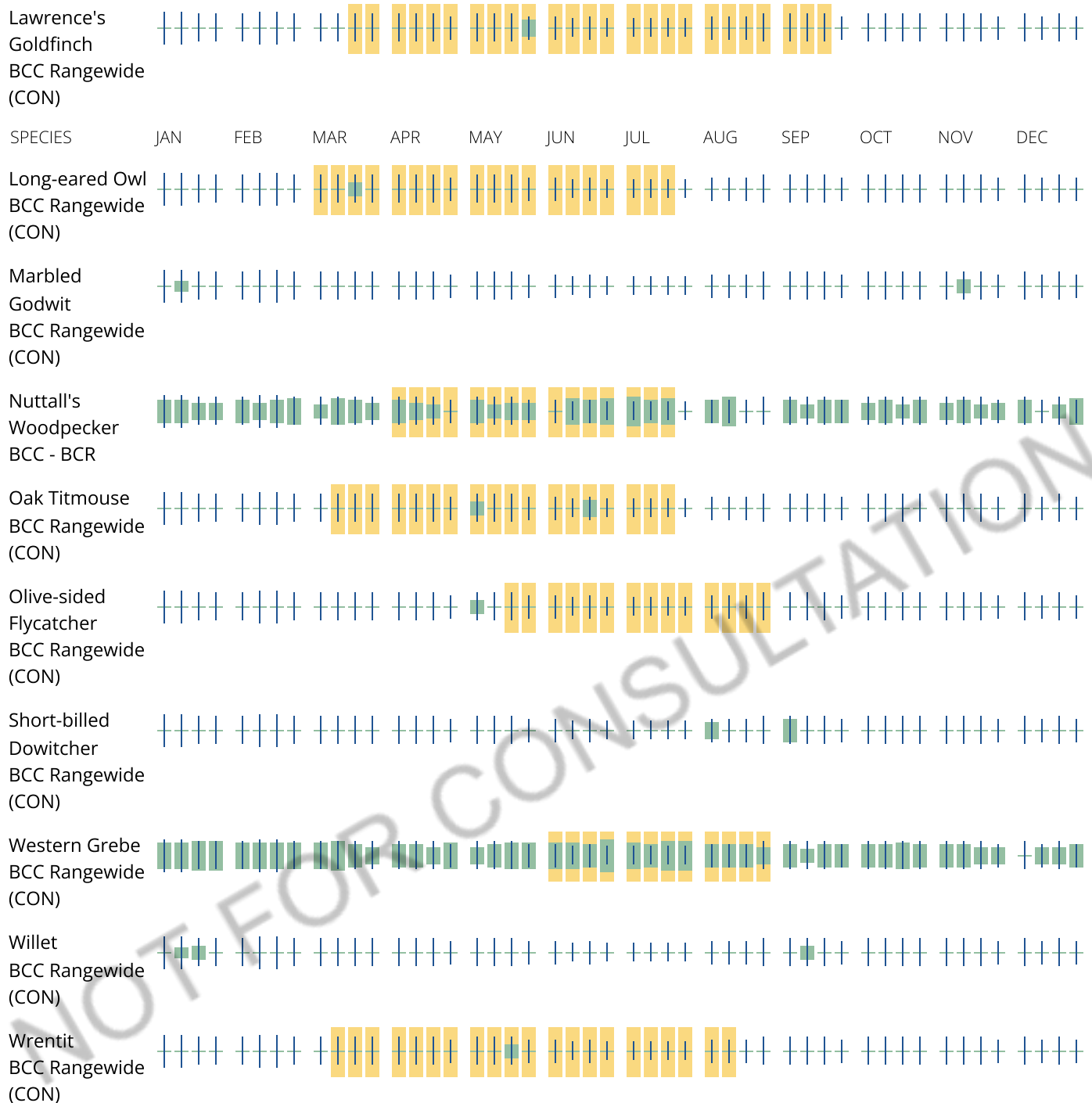
### No Data (—)

A week is marked as having no data if there were no survey events for that week.

### Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





**Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.**

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.



## What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

## What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

## How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

## What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).



Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

### Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

### What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

### Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

# Facilities

## National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

## Fish hatcheries

There are no fish hatcheries at this location.

## Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

**NOTE:** This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

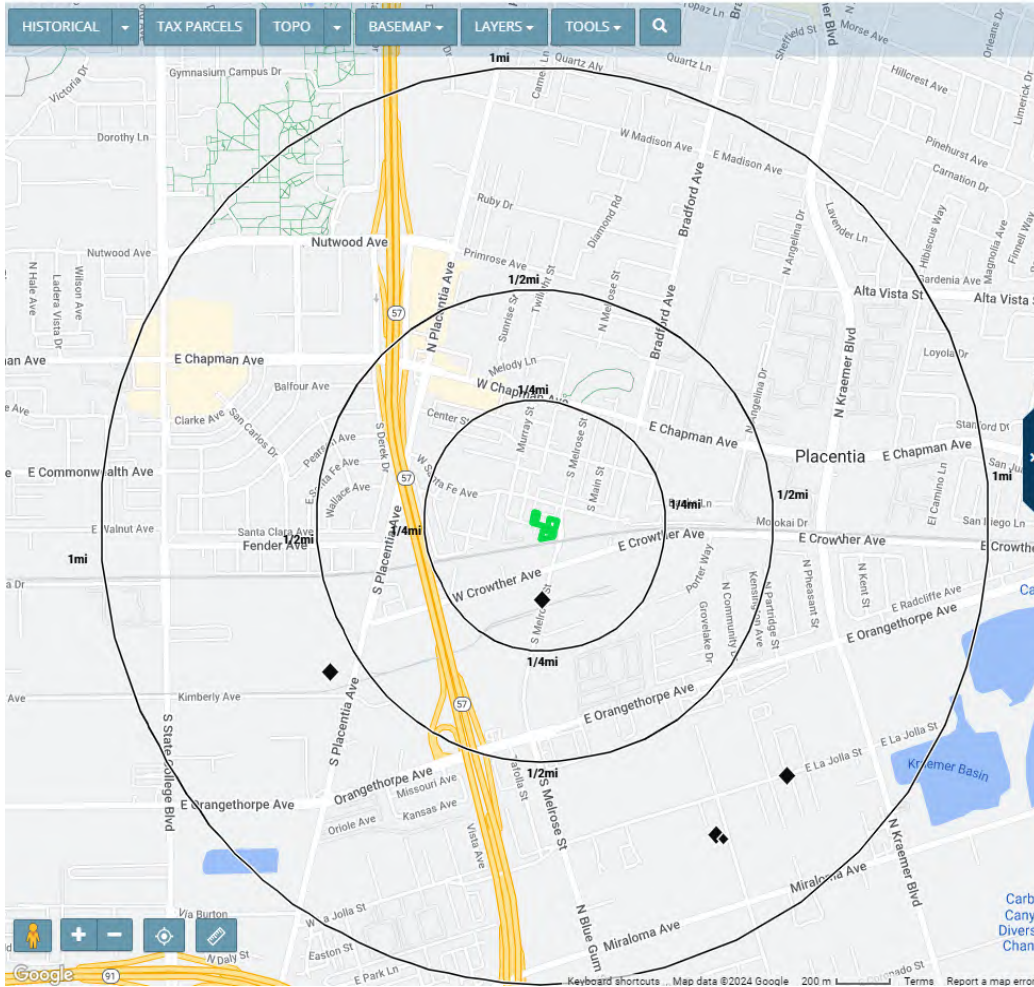
### **Data exclusions**

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

### **Data precautions**

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

## **Attachment 11. EDR Radius Report & ASD Calculations**



## FINDINGS ▾

## PHYSICAL SETTINGS ▾

## MAP FINDINGS

5 of 3000 Records, Filtered by: Database

EXPORT

COLUMNS ▾

ID	SITE NAME	ADDRESS	DATABASES	ELEV	DIST(mi)
64		505 S MELROSE ST	AST	Lower	0.134
1211		801 S PLACENTIA AVE	AST	Lower	0.569
2338	SONFARREL AEROSPACE LLC	3010 E LA JOLLA ST	AST CERS HAZ WASTE CERS TANKS NPDES CIWQS CERS	Lower	0.762
2475		1354 N RED GUM ST	AST	Lower	0.792
2488	NEFF RENTAL LLC- ANAHEIM	1354 N RED GUM ST	AST	Lower	0.792

Site Name	Site Address	Chemicals Onsite	Max Daily Amount/Unit (CalEPA)	Hazardous According to CFR 51.201	ASD Calculated Distance	Measured Distance from Project Site (feet)
United Rentals Branch 78F	1354 N RED GUM ST ANAHEIM CA 92806	Used Motor Oil	120-599 Gallons	Yes	223.4	4,181.76
		Urea	120-599 Gallons	No		
		Propane	12-59 Gallons	Yes	85.06	4,181.76
		Phenol, isobutylated, phosphate (3:1)	120-599 Gallons	No		
		Oxygen	0-2599 Cubic Feet	No		
		Motor Oil	600-1199 Gallons	Yes	298.29	4,181.76
		Ethylene Glycol (used)	12-59 Gallons	No		
		Ethylene Glycol	12-59 Gallons	No		
Sonfarrel Aerospace LLC	3010 E LA JOLLA ST ANAHEIM CA 92806	Diesel Fuel No. 2	120-599 Gallons	Yes	223.4	4,181.76
		WAY LUBRICANT ISO VG68	120-599 Gallons	No		
		Waste Water-Soluble Coolant	600-1199 Gallons	No		
		WASTE MEK	60-119 Gallons	No		
		TRICHLOROETHYLENE	60-119 Gallons	No		
		TOLUENE	60-119 Gallons	Yes	113.94	4,023.36
		SYNTHETIC THERMOPLASTIC POLYMER RESIN PEL	10000-24999 Pounds	No		
		Stoddard Solvent	60-119 Gallons	No		
		SOLUBLE OIL METAL CUTTING FLUID	12-59 Gallons	No		
		PROPANE	120-599 Gallons	Yes	223.4	4,023.36
		Oxygen	0-2599 Cubic Feet	No		
		Nitrogen, Liquid	60-119 Gallons	No		
		MULTIGEAR MP OIL SE 85W140	12-59 Gallons	No		
		MOBIL DTE OIL HEAVY	12-59 Gallons	No		
		Methanol	12-59 Gallons	No		
		Isopropanol 99%	60-119 Gallons	No		
		Hydrocarbons, C.gto req.20, petroleum wastes	120-599 Gallons	Yes	223.4	4,023.36
		High Heat Transfer Fluid	0-11 Gallons	No		
		Ethylene Glycol	12-59 Gallons	No		
		DARK CUTTING OIL D-10	12-59 Gallons	No		
		CLEAR CUTTING OIL C-30	60-119 Gallons	No		
		A/W HYDRAULIC OIL ISO VG32	120-599 Gallons	No		
		Acetylene	0-2599 Cubic Feet	No		
		2-PROPANOL	120-599 Gallons	No		
		2-BUTANONE	120-599 Gallons	No		
Howmet Global Fastening Systems Inc.	801 S PLACENTIA AVE FULLERTON CA 92831	Waste, Wire EDM DI Water	60-119 Gallons	No		
		Waste, Water Soluble Oils	12-59 Gallons	No		
		Waste, Water Soluble Oil & Coolant	1200-2999 Gallons	No		
		Waste, Vapor Control Ducting	500-999 Pounds	No		
		Waste, Sand Blast Debris	1000-4999 Pounds	No		
		Waste, Petroleum Oil	600-1199 Gallons	Yes	298.29	3,004.32
		Waste, Parts Washing Solution	600-1199 Gallons	No		
		Waste, Oily Debris	1000-4999 Pounds	No		
		Waste, Mop Water	600-1199 Gallons	No		
		Waste, Ionoplus 3000	60-119 Gallons	No		
		Waste, Grinding Sludge with Oil	120-599 Gallons	No		
		Waste, Grinding Sludge with Coolant	120-599 Gallons	No		

Coast Southwest	505 S MELROSE ST PLACENTIA CA 92870	Waste, Grinding Dust and Wheels	100-499 Pounds	No		
		Waste, Filter Paper w/ Grinding Fines	1000-4999 Pounds	No		
		Waste, EDM Filters	1000-4999 Pounds	No		
		Waste, Dual Hog Dust	100-499 Pounds	No		
		Waste Filter Paper w/ Grinding Fines	100-499 Pounds	No		
		Ultra Clean 3018S	60-119 Gallons	No		
		Scissorlift Acid Battery	100-499 Pounds	No		
		Petroleum Hydrocarbons & Additives	120-599 Gallons	Yes	223.4	3,004.32
		Petroleum Distillates	120-599 Gallons	Yes	223.4	3,004.32
		Oxygen Gas (compressed)	0-2599 Cubic Feet	No		
		Oxygen	0-2599 Cubic Feet	No		
		Oily Water	120-599 Gallons	No		
		Miscellaneous Oils	1200-2999 Gallons	No		
		Forklift Lead Acid Battery	1000-4999 Pounds	No		
		Forklift Lead Acid Battery	1000-4999 Pounds	No		
		EOS MaragingSteel MS1	500-999 Pounds	No		
		Dielectric Fluid (IonoPlus 3000)	120-599 Gallons	No		
		Cutting Fluids	1200-2999 Gallons	No		
		Argon/CO2 Gas Mixture	0-2599 Cubic Feet	No		
		Argon	0-2599 Cubic Feet	No		
		Sodium Lauryl Sulfate	10000-24999 Pounds	No		
		Sodium Coco Sulfate	100000-499999 Pounds	No		
		Rapidgel EZ1	1200-2999 Gallons	No		
		Phenoxyethanol	1200-2999 Gallons	No		
		Mineral oil, white	1200-2999 Gallons	No		
		Mineral oil, white	120-599 Gallons	No		
		Mineral Oil	120-599 Gallons	No		
		Mineral Oil	120-599 Gallons	No		
		Isopropyl Alcohol	60-119 Gallons	Yes	113.94	707.52
		Glycerin	3000-5999 Gallons	No		
		Glycerin	120000-1199999 Gallons	No		
		Ethene, homopolymer, oxidized	500-999 Pounds	No		
		Endiquest GLDA	120-599 Gallons	No		
		Dissolvine E-39	120-599 Gallons	No		
		Bis(2-hydroxy Ethyl)amine	12-59 Gallons	No		



United Rentals Branch 78F

Chemicals: Used Motor Oil (120-599 gallons)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container under pressure?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Does the container hold a cryogenic liquified gas?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Is the container diked?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
What is the volume (gal) of the container?	<input type="text" value="599"/>
What is the Diked Area Length (ft)?	<input type="text"/>
What is the Diked Area Width (ft)?	<input type="text"/>
<input type="button" value="Calculate Acceptable Separation Distance"/>	
Diked Area (sqft)	<input type="text"/>
ASD for Blast Over Pressure (ASDBOP)	<input type="text"/>
ASD for Thermal Radiation for People (ASDPPU)	<input type="text" value="223.40"/>
ASD for Thermal Radiation for Buildings (ASDBPU)	<input type="text" value="39.67"/>
ASD for Thermal Radiation for People (ASDPNPD)	<input type="text"/>
ASD for Thermal Radiation for Buildings (ASDBNPD)	<input type="text"/>



Chemicals: Propane (12-59 gallons)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container under pressure?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Does the container hold a cryogenic liquified gas?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Is the container diked?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
What is the volume (gal) of the container?	<input type="text" value="59"/>
What is the Diked Area Length (ft)?	<input type="text"/>
What is the Diked Area Width (ft)?	<input type="text"/>
<input type="button" value="Calculate Acceptable Separation Distance"/>	
Diked Area (sqft)	<input type="text"/>
ASD for Blast Over Pressure (ASDBOP)	<input type="text"/>
ASD for Thermal Radiation for People (ASDPPU)	<input type="text" value="85.06"/>
ASD for Thermal Radiation for Buildings (ASDBPU)	<input type="text" value="13.59"/>
ASD for Thermal Radiation for People (ASDPNPD)	<input type="text"/>
ASD for Thermal Radiation for Buildings (ASDBNPD)	<input type="text"/>

Chemicals: Motor Oil (600- 1199 gallons)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container under pressure?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Does the container hold a cryogenic liquified gas?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Is the container diked?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
What is the volume (gal) of the container?	<input type="text" value="1199"/>
What is the Diked Area Length (ft)?	<input type="text"/>
What is the Diked Area Width (ft)?	<input type="text"/>
<input type="button" value="Calculate Acceptable Separation Distance"/>	
Diked Area (sqft)	<input type="text"/>
ASD for Blast Over Pressure (ASDBOP)	<input type="text"/>
ASD for Thermal Radiation for People (ASDPPU)	<input type="text" value="298.29"/>
ASD for Thermal Radiation for Buildings (ASDBPU)	<input type="text" value="54.68"/>
ASD for Thermal Radiation for People (ASDPNPD)	<input type="text"/>
ASD for Thermal Radiation for Buildings (ASDBNPD)	<input type="text"/>

Chemicals: Diesel Fuel No. 2 (120-599 gallons)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container under pressure?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Does the container hold a cryogenic liquified gas?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Is the container diked?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
What is the volume (gal) of the container?	<input type="text" value="599"/>
What is the Diked Area Length (ft)?	<input type="text"/>
What is the Diked Area Width (ft)?	<input type="text"/>
<input type="button" value="Calculate Acceptable Separation Distance"/>	
Diked Area (sqft)	<input type="text"/>
ASD for Blast Over Pressure (ASDBOP)	<input type="text"/>
ASD for Thermal Radiation for People (ASDPPU)	<input type="text" value="223.40"/>
ASD for Thermal Radiation for Buildings (ASDBPU)	<input type="text" value="39.67"/>
ASD for Thermal Radiation for People (ASDPNPD)	<input type="text"/>
ASD for Thermal Radiation for Buildings (ASDBNPD)	<input type="text"/>

Sonfarrel Aerospace LLC

Chemicals: Toluene (60-119 gallons)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?

Yes: ☒ No: ☐

Is the container under pressure?

Yes: ☐ No: ☒

Does the container hold a cryogenic liquified gas?

Yes: ☐ No: ☐

Is the container diked?

Yes: ☐ No: ☒

What is the volume (gal) of the container?

119

What is the Diked Area Length (ft)?

What is the Diked Area Width (ft)?

Calculate Acceptable Separation Distance

Diked Area (sqft)

ASD for Blast Over Pressure (ASDBOP)

ASD for Thermal Radiation for People (ASDPPU)

113.94

ASD for Thermal Radiation for Buildings (ASDBPU)

18.79

ASD for Thermal Radiation for People (ASDPNPD)

ASD for Thermal Radiation for Buildings (ASDBNPD)

Chemicals: Propane (120-599 gallons)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container under pressure?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Does the container hold a cryogenic liquified gas?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Is the container diked?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
What is the volume (gal) of the container?	<input type="text" value="599"/>
What is the Diked Area Length (ft)?	<input type="text"/>
What is the Diked Area Width (ft)?	<input type="text"/>
<input type="button" value="Calculate Acceptable Separation Distance"/>	
Diked Area (sqft)	<input type="text"/>
ASD for Blast Over Pressure (ASDBOP)	<input type="text"/>
ASD for Thermal Radiation for People (ASDPPU)	<input type="text" value="223.40"/>
ASD for Thermal Radiation for Buildings (ASDBPU)	<input type="text" value="39.67"/>
ASD for Thermal Radiation for People (ASDPNPD)	<input type="text"/>
ASD for Thermal Radiation for Buildings (ASDBNPD)	<input type="text"/>

Chemicals: Hydrocarbons, C.gto req.20, petroleum wastes (120-599 gallons)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?

Yes: ☒ No: ☐

Is the container under pressure?

Yes: ☐ No: ☒

Does the container hold a cryogenic liquified gas?

Yes: ☐ No: ☐

Is the container diked?

Yes: ☐ No: ☒

What is the volume (gal) of the container?

599

What is the Diked Area Length (ft)?

What is the Diked Area Width (ft)?

Calculate Acceptable Separation Distance

Diked Area (sqft)

ASD for Blast Over Pressure (ASDBOP)

ASD for Thermal Radiation for People (ASDPPU)

223.40

ASD for Thermal Radiation for Buildings (ASDBPU)

39.67

ASD for Thermal Radiation for People (ASDPNPD)

ASD for Thermal Radiation for Buildings (ASDBNPD)

Howmet Global Fastening Systems Inc.

Chemicals: Waste- Petroleum Oil (600-1199 gallons)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container under pressure?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Does the container hold a cryogenic liquified gas?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Is the container diked?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
What is the volume (gal) of the container?	<input type="text" value="1199"/>
What is the Diked Area Length (ft)?	<input type="text"/>
What is the Diked Area Width (ft)?	<input type="text"/>
<input type="button" value="Calculate Acceptable Separation Distance"/>	
Diked Area (sqft)	<input type="text"/>
ASD for Blast Over Pressure (ASDBOP)	<input type="text"/>
ASD for Thermal Radiation for People (ASDPPU)	<input type="text" value="298.29"/>
ASD for Thermal Radiation for Buildings (ASDBPU)	<input type="text" value="54.68"/>
ASD for Thermal Radiation for People (ASDPNPD)	<input type="text"/>
ASD for Thermal Radiation for Buildings (ASDBNPD)	<input type="text"/>

Chemicals: Petroleum Hydrocarbons & Additives (120-599 gallons)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container under pressure?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Does the container hold a cryogenic liquified gas?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Is the container diked?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
What is the volume (gal) of the container?	<input type="text" value="599"/>
What is the Diked Area Length (ft)?	<input type="text"/>
What is the Diked Area Width (ft)?	<input type="text"/>
<input type="button" value="Calculate Acceptable Separation Distance"/>	
Diked Area (sqft)	<input type="text"/>
ASD for Blast Over Pressure (ASDBOP)	<input type="text"/>
ASD for Thermal Radiation for People (ASDPPU)	<input type="text" value="223.40"/>
ASD for Thermal Radiation for Buildings (ASDBPU)	<input type="text" value="39.67"/>
ASD for Thermal Radiation for People (ASDPNPD)	<input type="text"/>
ASD for Thermal Radiation for Buildings (ASDBNPD)	<input type="text"/>



Chemicals: Petroleum Distillates (120-599 gallons)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container under pressure?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Does the container hold a cryogenic liquified gas?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Is the container diked?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
What is the volume (gal) of the container?	<input type="text" value="599"/>
What is the Diked Area Length (ft)?	<input type="text"/>
What is the Diked Area Width (ft)?	<input type="text"/>
<input type="button" value="Calculate Acceptable Separation Distance"/>	
Diked Area (sqft)	<input type="text"/>
ASD for Blast Over Pressure (ASDBOP)	<input type="text"/>
ASD for Thermal Radiation for People (ASDPPU)	<input type="text" value="223.40"/>
ASD for Thermal Radiation for Buildings (ASDBPU)	<input type="text" value="39.67"/>
ASD for Thermal Radiation for People (ASDPNPD)	<input type="text"/>
ASD for Thermal Radiation for Buildings (ASDBNPD)	<input type="text"/>

Coast Southwest

Chemicals: Isopropyl Alcohol (60-119 gallon)

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container under pressure?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Does the container hold a cryogenic liquified gas?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Is the container diked?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
What is the volume (gal) of the container?	<input type="text" value="119"/>
What is the Diked Area Length (ft)?	<input type="text"/>
What is the Diked Area Width (ft)?	<input type="text"/>
<input type="button" value="Calculate Acceptable Separation Distance"/>	
Diked Area (sqft)	<input type="text"/>
ASD for Blast Over Pressure (ASDBOP)	<input type="text"/>
ASD for Thermal Radiation for People (ASDPPU)	<input type="text" value="113.94"/>
ASD for Thermal Radiation for Buildings (ASDBPU)	<input type="text" value="18.79"/>
ASD for Thermal Radiation for People (ASDPNPD)	<input type="text"/>
ASD for Thermal Radiation for Buildings (ASDBNPD)	<input type="text"/>

## **Attachment 12. California Important Farmland Finder**



323 Baker St, Placentia, CA, 928 X



Show search results for 323 Baker St, ...

## Search result

323 Baker St, Placentia, CA, 92870, USA

[Zoom to](#)

## Legend

### County Boundaries

County Boundaries



### California Important Farmland: Most Recent

Most Recent

#### Polygon Type

- Prime Farmland
- Farmland of Statewide Importance
- Unique Farmland
- Grazing Land
- Farmland of Local Importance
- Farmland of Local Potential
- Other Land
- Confined Animal Agriculture
- Nonagricultural or Natural Vegetation
- Vacant or Disturbed Land
- Rural Residential Land
- Semi-agricultural and Rural Commercial Land
- Urban and Built-Up Land
- Water Area
- Irrigated Farmland
- Nonirrigated Farmland

2mi

-117.691 33.977 Degrees

City of Anaheim, County of Los Angeles, Bureau

**Attachment 13. Orange County SHPO Consultation Letter**



DYLAN WRIGHT  
DIRECTOR  
OC COMMUNITY RESOURCES

CYMANTHA ATKINSON  
ASSISTANT DIRECTOR  
OC COMMUNITY RESOURCES

JOANNE VEEDOR  
DIRECTOR  
ADMINISTRATIVE SERVICES

MONICA SCHMIDT  
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OC HOUSING & COMMUNITY DEVELOPMENT

RENEE RAMIREZ  
DIRECTOR  
OC COMMUNITY SERVICES

PAMELA PASSOW  
DIRECTOR  
OC PARKS

JULIE QUILLMAN  
COUNTY LIBRARIAN  
OC PUBLIC LIBRARIES

# Community Resources

December 13, 2023

California Department of Parks and Recreation  
Office of Historic Preservation  
1725 23<sup>rd</sup> Street, Suite 100  
Sacramento, CA 95816

**Re:** Request for SHPO Concurrence: Placentia Baker Street Project, Placentia, Orange County, California

To Whom it May Concern

In accordance with Section 106 of the National Historic Preservation Act (NHPA) of 1966 as amended (16 U.S.C 470f), and as required by the U.S. Department of Housing and Urban Development (HUD), we are requesting your review and comments on the determination of no effect that Project implementation would have on historic properties within the Project Area of Potential Effects (Project APE) for the Placentia Baker Street Project (Project).

Placentia Baker Street Project  
307, 312, 314 and 323 Baker Street  
Placentia, CA 92870

## Undertaking

The proposed Project includes the construction of a housing development planned for families and individuals exiting homelessness. The main structure will be five stories and contain 68 units with a mix of one, two, and three bedrooms for families and individuals at 30% to 60% area median income (AMI). This includes 18 permanent support housing units for formerly homeless households (see Exhibit 1 for Project Description).

## Area of Potential effects (APE)

The Project APE is within Section 36 of Township 3S and Range 10W on the Orange, California U.S Geological Survey (USGS) 7.5-minute Series Quadrangle Map. The APE is comprised of three discrete sites (A, B, and C) located on Baker Street (St.) in the City of Placentia, Orange County, California (Exhibit 4.25). Specifically, Site A is located on the north side of Baker St. and is currently identified as 307 Baker St., Site B is located on the south side of Baker St. and is currently identified as 312 and 314 Baker St., and Site C is located on the north side of Baker St. and is identified as 323 Baker Street. The APE totals 0.86-acres and encompasses Assessor Parcel Numbers (APNs): 339-391-14, 339-391-15, 339-392-15, and 339-392-19. The undertaking will include rough grading and over-excavation of the existing ground surface for site development (including the construction of a main structure, surface parking, and underground utilities) within the APE. Ground disturbance would encompass the entire 0.86-

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COUNTY ADMINISTRATION SOUTH  
601 N. ROSS STREET, 6<sup>TH</sup> FLOOR  
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acre APE: the vertical APE, as represented by the maximum depth of excavation, will be approximately zero to five feet below the existing ground surface (see Exhibit 2 for Project APE Photos).

### **Historic Property Identification Effort**

DUDEK conducted a records search at the California Historic Resources Information System (CHRIS) South Central Coastal Information Center (SCCIC) on November 14, 2023. The records search indicates that 22 previously recorded cultural resources are located within one mile of the Project APE, none of which intersect the APE. The large majority (21) of these resources are historic era-built environment resources associated with the historical development of Placentia over the 20<sup>th</sup> Century. A review of historic aerial imagery (historic aerials) and historic topographic maps indicates the APE has been subject to past disturbances associated with the development and demolition of several structures over the past century. Additionally, the historic aerials indicate that Sites A, B, and C have all been subject to grading by heavy machinery. Currently, all three sites remain vacant and undeveloped.

Based on background research indicating past disturbances within the Project APE, and in consideration of the lack of prehistoric and historic-era archaeological resources within one-mile of the APE, DUDEK concludes that there is a low potential for encountering intact subsurface archaeological deposits within the APE during Project implementation (see Exhibit 3 for Cultural Resources Constraints Analysis).

### **Description of Findings**

We did not identify any cultural resources, including historic properties, within the Project APE.

### **Determination of Effect**

We have determined that the undertaking would have no effect on historic properties (i.e., no historic properties affected). Our investigation did not identify any historic properties or other cultural resources within the Project APE.

Your review and comments on our determination of no historic properties affected is requested. Please provide us with your response on or before 30 days of receipt of this letter.

To assist in your review, included in this packet is the cultural resources constraints analysis (with confidential records search results) prepared by Dudek for Project, as well undertaking descriptions, photographs, and maps. Should you need further information, please contact me via email at [suzanne.harder@occr.ocgov.com](mailto:suzanne.harder@occr.ocgov.com).

Sincerely,



Suzanne Harder, Community Development Compliance and Environmental Coordinator, OC Housing and Community Development

Attachments-Exhibits 1-4, 4.25, and 5



DYLAN WRIGHT  
DIRECTOR  
OC COMMUNITY RESOURCES

CYMANTHA ATKINSON  
ASSISTANT DIRECTOR  
OC COMMUNITY RESOURCES

JOANNE VEEDOR  
DIRECTOR  
ADMINISTRATIVE SERVICES

MONICA SCHMIDT  
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OC ANIMAL CARE

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DEVELOPMENT

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PAMELA PASSOW  
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COUNTY LIBRARIAN  
OC PUBLIC LIBRARIES

# Community Resources

April 25, 2024

To File:

RE: Section 106 Consultation with California State Historic Preservation Office (SHPO) Placentia Baker Street Project.

Pursuant to 36 CFR Part 800, regulations implementing Section 106, the County requested SHPO concurrence December 13, 2023, on their determination of "No Historic Properties Affected." Pursuant to 36 Code of Federal Regulations (CFR) 800.3(c)(4), SHPO did not respond within 30 days of receiving the County's request for a finding or determination. As a result, the County's consultation requirements with the SHPO are complete.

Suzanne Harder  
Community Development Compliance and  
Environmental Coordinator

4/25/2024

Date



1501 E. ST. ANDREW PLACE, 1<sup>ST</sup> FLOOR  
SANTA ANA, CA 92705  
PHONE: 714.480.6534  
FAX: 714.480.2978



## **Attachment 14. Noise Memorandum**

## MEMORANDUM

---

**To:** Jonathan Rigg, Dudek  
**From:** Mike Greene, Dudek  
**Subject:** Baker Street HUD Project - Noise Analysis Summary  
**Date:** 04/05/2024  
**cc:** Mark Storm, Dudek  
Connor Burke, Dudek  
**Attachment(s):** Figure 1, Project Location  
Figure 2, Project Site Plan  
Figure 3, Noise Measurement Location  
Attachment A, LT-1 Field Noise Data  
Attachment B, LT-2 Field Noise Data

---

In response to a request for information from the Orange County Department of Housing and Community Development regarding noise levels at the proposed project site located at 312 Baker Street in Placentia, California, Dudek conducted a round of initial noise modeling, long-term (24-hours or more duration) noise measurements, and subsequent detailed noise modeling of the project site. This technical noise memorandum summarizes the results of those noise measurements and modeling.

## 1 Background

### 1.1 Project Description and Purpose

As shown in Figure 1, the project site is in the City of Placentia, approximately 30 feet north of an active rail line, approximately 90 feet west of the Melrose Street centerline, and approximately 350 feet south of the Crowther Avenue centerline. The nearest freeway (State Route 57) is located approximately 1,500 feet to the west and is thus not a factor in the local ambient noise environment. Similarly, the nearest airport (Fullerton Municipal Airport) is located approximately 5.75 miles to the west and is also not a contributor to the local ambient noise environment.

The proposed project site, which is currently vacant, would be developed with affordable housing aimed at supporting families and individuals exiting homelessness (Figure2). The new affordable housing community would feature a 5-story building with 68 apartments and 72 total parking spaces distributed between podium and surface parking areas. Onsite amenities would include a 5<sup>th</sup>-floor level “Skydeck”. This Skydeck, which would have a partially obscured view of the rail line to the south, would be the nearest outdoor amenity area to the rail tracks located to the south, as well as the one with the most exposure to the associated rail noise.

The purpose of the noise analysis was to determine the suitability of the site for U.S. Department of Housing and Urban Development (HUD)-funded housing. To qualify for HUD funds, noise standards specified by HUD must be met. These noise standards are summarized in Section 2.1, below.

## 1.2 Noise Fundamentals and Terminology

Vibrations, traveling as waves through air from a source, exert a force perceived by the human ear as sound. Sound pressure level (referred to as sound level) is measured on a logarithmic scale in decibels (dB) that represent the fluctuation of air pressure above and below atmospheric pressure. Frequency, or pitch, is a physical characteristic of sound and is expressed in units of cycles per second or hertz (Hz). The normal frequency range of hearing for most people extends from about 20 to 20,000 Hz. The human ear is more sensitive to middle and high frequencies, especially when the noise levels are quieter. As noise levels get louder, the human ear starts to hear the frequency spectrum more evenly. To accommodate for this phenomenon, a weighting system to evaluate how loud a noise level is to a human was developed. The frequency weighting called “A” weighting is typically used for quieter noise levels, which de-emphasizes the low-frequency components of the sound in a manner similar to the response of a human ear. This A-weighted sound level is called the “noise level” and is referenced in units of dBA.

Because sound is measured on a logarithmic scale, a doubling of sound energy results in a 3 dBA increase in the noise level. Changes in a community noise level of less than 3 dB are not typically noticed by the human ear (Caltrans 2013). Changes from 3 to 5 dB may be noticed by some individuals who are extremely sensitive to changes in noise. A 5 dB increase is readily noticeable. The human ear perceives a 10 dB increase in sound level as a doubling of the sound level (i.e., 65 dBA sounds twice as loud as 55 dBA to a human ear).

An individual’s noise exposure occurs over a period of time; however, noise level is a measure of noise at a given instant in time. The equivalent continuous sound level ( $L_{eq}$ ), also referred to as the average sound level, is a single number representing the fluctuating sound level in A-weighted decibels (dBA) over a specified period of time. It is a sound-energy average of the fluctuating level and is equal to a constant unchanging sound of that dB level. Community noise sources vary continuously, being the product of many noise sources at various distances, all of which constitute a relatively stable background or ambient noise environment.

Noise levels are generally higher during the daytime and early evening when traffic (including airplanes), commercial, and industrial activity is the greatest. However, noise sources experienced during nighttime hours when background levels are generally lower can be potentially more conspicuous and irritating to the receiver. In order to evaluate noise in a way that considers periodic fluctuations experienced throughout the day and night, a concept termed “community noise equivalent level” (CNEL) was developed. The CNEL scale represents a time-weighted 24-hour average noise level based on the A-weighted sound level. CNEL accounts for the increased noise sensitivity during the evening hours (7 p.m. to 10 p.m.) and nighttime hours (10 p.m. to 7 a.m.) by adding 5 dB to the average sound levels occurring during the evening hours and 10 dB to the sound levels occurring during nighttime hours. The day-night sound level ( $L_{dn}$ ) is a comparable 24-hour acoustical descriptor but differs slightly from CNEL in that it treats the 7 p.m. to 10 p.m. evening hours as daytime hours and are thus not penalized by a 5 dB increment. Additional noise definitions are provided below.

**Ambient Noise Level.** The composite of noise from all sources near and far. The normal or existing level of environmental noise at a given location.

**A-Weighted Sound Level (dBA).** The sound pressure level in decibels as measured on a sound level meter using the A-weighted filter network. The A-weighting filter deemphasizes the very low and very high frequency components of

the sound in a manner similar to the frequency response of the human ear and correlates well with community equivalent sound level.

**Community Noise Equivalent Level (CNEL).** CNEL is the A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during the nighttime hours (10 p.m.–7 a.m.) and 5 dB added to the sound during the evening hours (7 p.m.–10 p.m.).

**Day Night Average Sound Level (DNL or  $L_{dn}$ ).** Similar to the CNEL noise metric, except that no penalty is added during the evening hours (7 p.m.–10 p.m.). Typically, the CNEL and  $L_{dn}$  noise metrics vary by approximately 1 decibel or less and are often considered to be functionally equivalent.

**Decibel (dB).** The decibel is a unit for measuring sound pressure level and is equal to 10 times the logarithm to the base 10 of the ratio of the measured sound pressure squared to a reference pressure, which is 20 micropascals.

**$L_{eq}$ .** Energy equivalent level, which is the equivalent steady-state sound level that, in a stated period of time, contains the same acoustical energy as a time-varying sound during the same time period. An  $L_{eq}$  level is computed by summing the noise energy over the stated time period using mathematical integration.

**$L_n$ .** Noise level equaled or exceeded "n" percent of the time. For example,  $L_{10}$  is the level equaled or exceeded 10 percent of the time.

**$L_{max}$ .** Maximum noise level.

**SEL** Sound Exposure Level. The exposure level of a single noise event (measured in dB) such as a rail pass-by, measured over the time interval between the initial and final times for which the sound level of the single event exceeds the background noise level.

## 2 Noise Analysis Methodology

### 2.1 Applicable Noise Standards

HUD's noise standards may be found in 24 CFR Part 51, Subpart B (CFR 2013). Exterior uses with a day night average sound level (DNL) of 65 dBA or less are considered normally acceptable. Sites at which the environmental or community noise exposure exceeds 65 decibels DNL are considered noise-impacted areas. For new construction proposed in high noise areas, grantees shall incorporate noise attenuation features to the extent required by HUD environmental criteria and standards contained in Subpart B (Noise Abatement and Control) of 24 CFR Part 51. The "Normally Unacceptable" noise zone includes community noise levels from above 65 decibels to 75 decibels. Approvals in this noise zone require a minimum of 5 dB additional sound attenuation for buildings having noise-sensitive uses if the day-night average sound level is greater than 65 dBA but does not exceed 70 dBA, or a minimum of 10 decibels of additional sound attenuation if the day-night average sound level is greater than 70 dBA but does not exceed 75 dBA. Locations in excess of 75 dBA DNL are categorized as being in an "Unacceptable" noise zone. According to HUD regulations, a project cannot be in a location with "unacceptable" noise exposure without the approval of the Responsible Entity.

The interior noise standard is 45 dBA DNL.

## 2.2 Preliminary Noise Modeling

The primary noise source onsite and in the project vicinity is train noise from the rail line located to the south, which is utilized for both freight and passenger service. Motor vehicle traffic from the adjacent arterial roadways (Melrose Street and Crowther Avenue) is also a contributor to the ambient noise environment. The other nearby roads are minor “feeder” streets which would have a negligible contribution to the on-site noise environment. An initial noise analysis of rail and traffic noise from Melrose Street and Crowther Avenue carried out using HUD’s DNL Calculator indicated that worst-case exterior building façade noise levels would be approximately 76 dBA DNL. Given these relatively high levels, it was decided that a confirmation of onsite noise using a series of long-term noise measurements would be beneficial.

## 2.3 Noise Measurement Methodology

The noise measurement location is shown in Figure 3. The measurement microphone was located at the approximate location of the proposed project’s southern façade (a distance of approximately 10 feet from the project site’s southern property boundary). Two separate long-term (LT) noise measurements (LT-1 and LT-2) were conducted on-site from January 25 - 26, 2024 and from January 30 - 31, 2024. The LT measurements were conducted using Piccolo II Integrating Sound Level Meters equipped with a 0.5-inch, pre-polarized condenser microphone with pre-amplifier. The sound level meters meet the current American National Standards Institute (ANSI) standard for a Type 2 (General Use) sound level meter. The calibration of the sound level meters was verified before and after the measurements, and the measurements were conducted with the measurement microphone covered with a windscreen and positioned approximately five feet above the ground. For each of the LT noise measurements, 5-minute intervals were recorded, during which the following noise metrics were logged, in A-weighted decibels (dBA):  $L_{eq}$ ,  $L_{max}$ ,  $L_{90}$ ,  $L_{50}$ ,  $L_{10}$  and SEL.

## 3 Noise Measurement Data Summary

During the LT-1 noise measurements (conducted January 25 - 26, 2024), technical difficulties resulted in slightly less than 24 hours of consistent noise level data being collected. However, the resulting 23.5 hours of noise data yielded an extrapolated noise level of 75.6 dBA DNL. The noise level data is summarized in Table 1, and the complete measurement data set is provided in Attachment A.

During the LT-2 noise measurements (conducted January 30-31, 2024), a more robust total of 32.5 hours of continuous noise monitoring data was collected onsite. The noise level data is summarized in Table 2, and the complete measurement data set is provided in Attachment B. The noise measurement data shows regular and consistent high noise level “spikes” (as shown in the figure below), which based on the rail traffic inventory collected, were a result of train pass-bys. The measured noise level, when expressed in terms of the 24-hour weighted average Day-Night Level (DNL) noise metric, was 75.3 dBA DNL.

Therefore, this confirms– along with the HUD DNL Calculator model - that the onsite noise level at the project’s southern façade is currently in the “unacceptable” range. Additionally, it is likely that passenger and freight rail traffic on the rail line to the south will increase in the future, so these noise levels can be expected to increase a

few decibels (an increase of approximately 3 dB is likely a good conservative estimate). Thus, future combined (rail plus traffic) noise is estimated to be approximately 78 dBA DNL at the project’s southern façade.

**Table 1. LT1 (January 25-26, 2024) Noise Measurement Data Summary**

Time	Hourly Leq (dBA)	Measured DNL (dBA)
2:00:00 PM	68.9	75.6
3:00:01 PM	69.6	
4:00:00 PM	67.3	
5:00:00 PM	70.5	
6:00:01 PM	70.2	
7:00:00 PM	63.2	
8:00:00 PM	70.1	
9:00:01 PM	79.8	
10:00:00 PM	83.1	
11:00:00 PM	79.7	
12:00:01 AM	76.1	
1:00:00 AM	64.6	
2:00:00 AM	78.2	
3:00:01 AM	81.4	
4:00:00 AM	77.4	
5:00:00 AM	71.2	
6:00:00 AM	76.7	
7:00:01 AM	69.2	
8:00:00 AM	69.3	
9:00:00 AM	70.1	
10:00:01 AM	52.9	
11:00:00 AM	70.3	
12:00:00 PM	63.5	
1:00:00 PM	52.3	

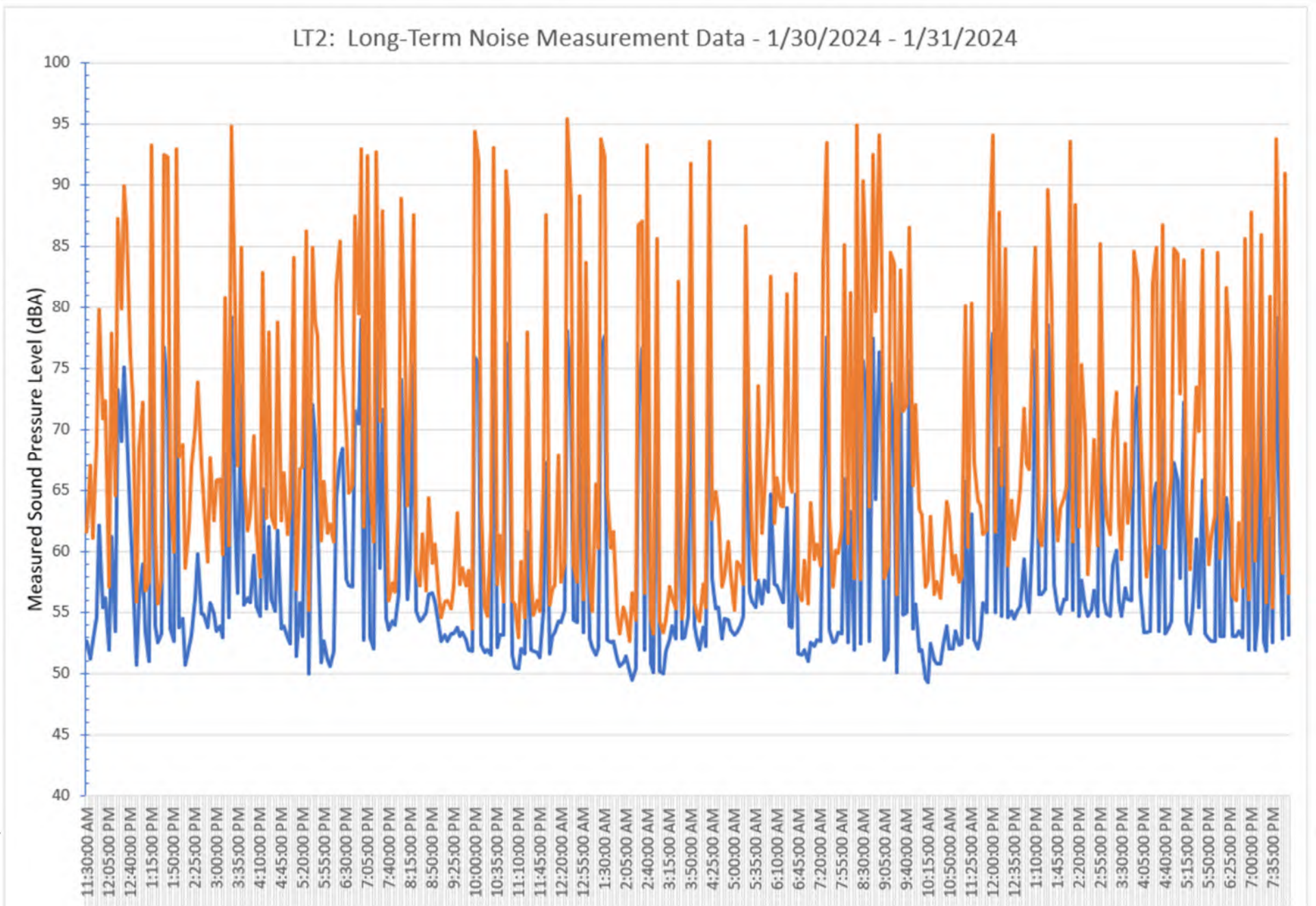
Source: Attachment A

**Table 2. LT2 (January 30-31, 2024) Noise Measurement Data Summary**

Time	Hourly Leq (dBA)	Measured DNL (dBA)
12:00:00 PM	68.1	75.3
1:00:00 PM	70.4	
2:00:00 PM	67.1	
3:00:01 PM	69.9	
4:00:00 PM	59.1	
5:00:00 PM	67.7	
6:00:01 PM	65.6	
7:00:00 PM	72.6	
8:00:00 PM	67.4	
9:00:01 PM	53.4	
10:00:00 PM	81.4	
11:00:00 PM	76.5	
12:00:01 AM	79.4	
1:00:00 AM	79.9	
2:00:00 AM	80.2	
3:00:01 AM	79.8	
4:00:00 AM	78.9	
5:00:00 AM	76.8	
6:00:00 AM	69.7	
7:00:01 AM	67.2	
8:00:00 AM	72.5	
9:00:00 AM	71.1	
10:00:01 AM	52.1	
11:00:00 AM	58.2	
12:00:00 PM	70.1	
1:00:00 PM	70.4	
2:00:00 PM	69.4	
3:00:01 PM	66.2	
4:00:00 PM	65.5	
5:00:00 PM	64.4	
6:00:01 PM	65.3	
7:00:00 PM	71.2	

Source: Attachment B







## 4 Detailed Exterior Noise Modeling

An analysis of noise levels at the proposed outdoor amenity areas (in particular the 5<sup>th</sup>-floor sky deck) was conducted using Cadna/A®. Cadna/A® is a computer program for the calculation and assessment of noise levels from construction activities, industrial facilities and other noise sources. The program allows for input of all pertinent features (such as terrain or structures) that affect noise, resulting in a highly accurate estimate of existing and future noise levels. Cadna/A® uses internationally recognized algorithms (ISO 9613-2) for the propagation of sound outdoors to calculate noise effects. It was conservatively assumed that the future noise level from the rail line would be 78 dBA DNL at ground level of the southern façade of the proposed building (approximately 2.5 decibels higher than the measured noise level), to account for increases in freight and passenger rail traffic in the future. The resulting noise level at the worst-case outdoor amenity area (near the southwestern edge of the sky deck) was 64.7 dBA DNL. At the next-nearest outdoor amenity area with a rail noise exposure, at the 2<sup>nd</sup>-level podium deck, the exterior noise level would be approximately 58 dBA DNL. Thus, the estimated future exterior noise level on the sky deck and at the other exterior amenity areas would not exceed the 65 dBA DNL noise standard.

These results account for the shielding provided by the 5th-floor building structure immediately to the south of the sky deck, but do not assume any shielding to the west (i.e., the sky deck's western parapet). Thus, in the event that additional noise reduction is needed at a later date, clear-view glass or acrylic panels could be installed as needed.

## 5 Interior Noise Levels

Based upon modeling and measurements indicating that existing ambient noise levels at the project's southern façade are in excess of 75 dBA DNL, and reasonable estimates that future noise levels (to account for increases in freight and passenger rail service) would be approximately 78 dBA DNL, the building shell (walls, doors, windows and roof structure assemblies) would need to achieve a minimum of 33 dB noise reduction in order to meet the HUD requirement for interior living spaces of 45 dBA DNL. It will be the responsibility of the developer (Mercy Housing) to ensure that the required HUD interior noise thresholds are met.

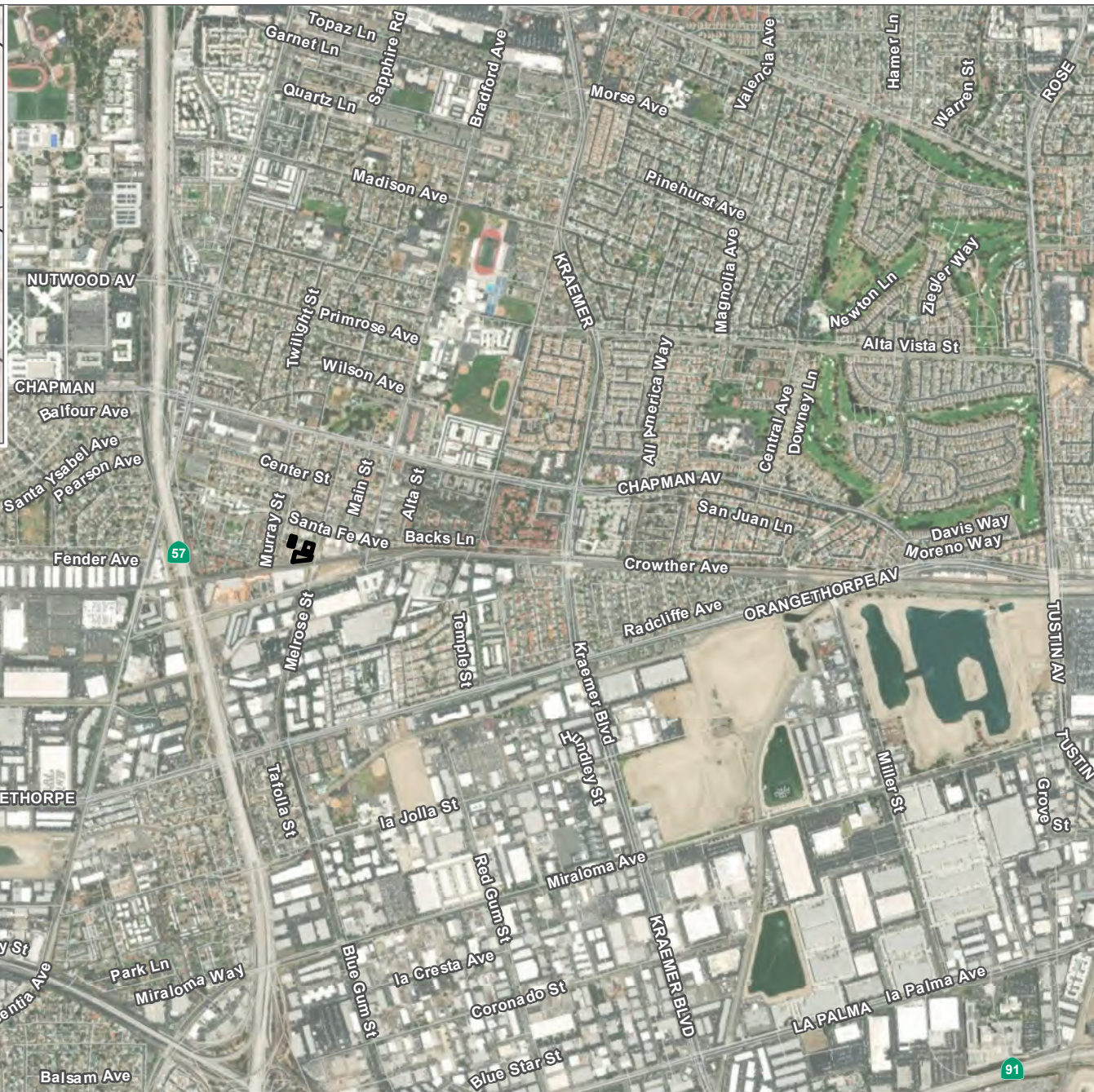
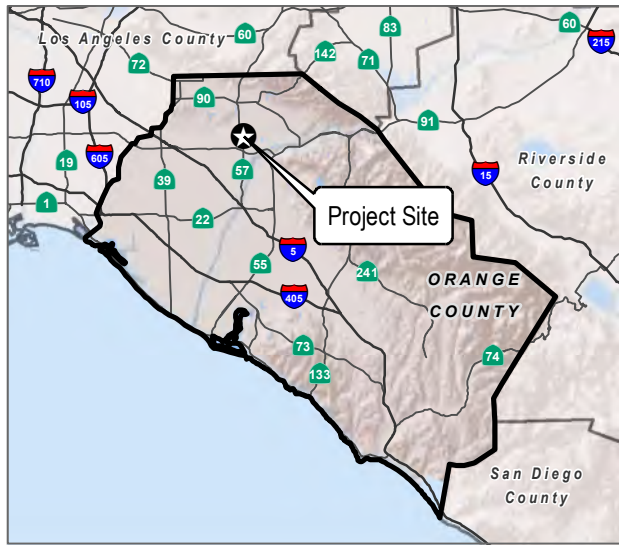
## References

Caltrans (California Department of Transportation). 2013. Technical Noise Supplement to the Caltrans Traffic Noise Analysis Protocol. Division of Environmental Analysis, Environmental Engineering, Hazardous Waste, Air, Noise, Paleontology Office. September 2013

CFR (United States Code of Federal Regulations). 2013. Title 24, Volume 1, Title 51 Subpart B. Accessed 1/25/24: <https://www.govinfo.gov/content/pkg/CFR-2013-title24-vol1/pdf/CFR-2013-title24-vol1-part51-subpartB.pdf>

## Figures





 Project Boundary

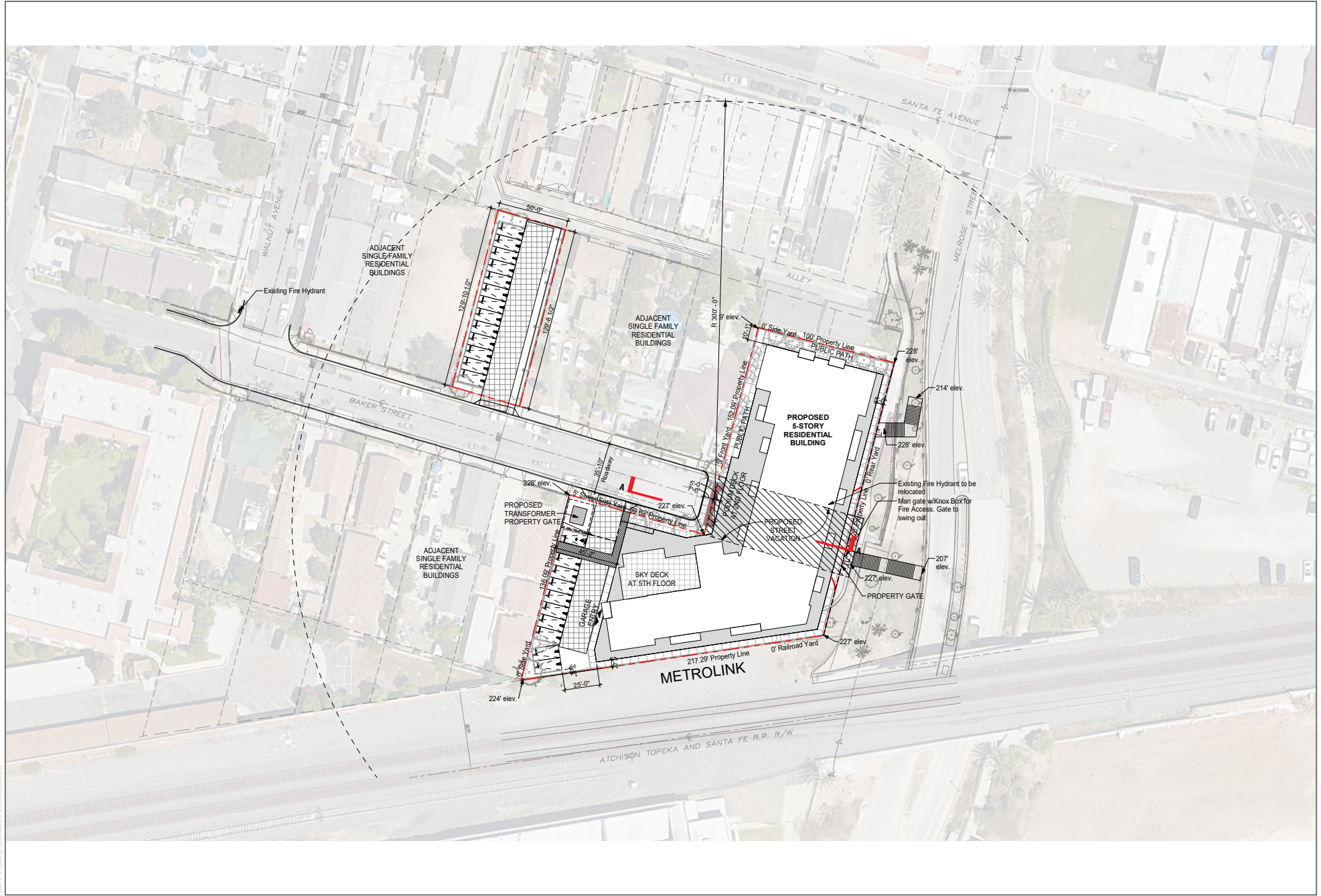
SOURCE: DigitalGlobe 2017

**DUDEK**



**FIGURE 1**  
Project Location  
Placentia Baker Street





SOURCE: TCA Architects, 2023

**FIGURE 2**  
Project Site Plan  
Placentia Baker Street





SOURCE: Bing Imagery 2021

**DUDEK**



0 35 70 Feet

**FIGURE 3**  
**Noise Measurement Location**  
 Placentia Baker Street

Attachment A:  
LT-1 Field Noise Data

LT1

Number	Start Date	Start Time	End Time	Duration	Meas Mod	Input Rang	Input Type	SPL Time V	LN% Freq \	Overload	UnderRang	Sensitivity	LZeq	LCeq	LAeq
6638	1/25/2024	2:10:15 PM	2:15:00 PM	0:04:45	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	72.2	70.6	67.7
6639	1/25/2024	2:15:00 PM	2:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.7	66.9	58
6640	1/25/2024	2:20:00 PM	2:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.7	66.8	57.2
6641	1/25/2024	2:25:00 PM	2:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	89.9	88.9	76.9
6642	1/25/2024	2:30:00 PM	2:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	85.2	84	72.8
6643	1/25/2024	2:35:00 PM	2:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.6	68.5	56.9
6644	1/25/2024	2:40:00 PM	2:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.1	67.8	57.3
6645	1/25/2024	2:45:00 PM	2:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.2	67.5	56.5
6646	1/25/2024	2:50:00 PM	2:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	72	68.5	56.8
6647	1/25/2024	2:55:00 PM	3:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69	65.5	56.1
6648	1/25/2024	3:00:00 PM	3:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.1	67.3	57.9
6649	1/25/2024	3:05:00 PM	3:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.1	67.4	57.9
6650	1/25/2024	3:10:00 PM	3:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	72.5	69.7	58.2
6651	1/25/2024	3:15:00 PM	3:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	72.6	68.6	56.1
6652	1/25/2024	3:20:00 PM	3:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	72.1	70	57
6653	1/25/2024	3:25:00 PM	3:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	89	86.8	74.1
6654	1/25/2024	3:30:00 PM	3:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	78.5	76.5	64.6
6655	1/25/2024	3:35:00 PM	3:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.9	69.9	57.6
6656	1/25/2024	3:40:00 PM	3:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	73.8	70.9	57
6657	1/25/2024	3:45:00 PM	3:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	91.1	89.9	76.9
6658	1/25/2024	3:50:00 PM	3:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	73.1	71	57.1
6659	1/25/2024	3:55:00 PM	4:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	87.7	85.8	74.2
6660	1/25/2024	4:00:00 PM	4:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.5	69.5	57.5
6661	1/25/2024	4:05:00 PM	4:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	90.7	89.7	74.9
6662	1/25/2024	4:10:00 PM	4:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.8	69.4	63.4
6663	1/25/2024	4:15:00 PM	4:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.8	67.2	56
6664	1/25/2024	4:20:00 PM	4:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	76.9	76.1	66
6665	1/25/2024	4:25:00 PM	4:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.2	69.8	58.6
6666	1/25/2024	4:30:00 PM	4:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70	68	56.9
6667	1/25/2024	4:35:00 PM	4:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.6	68.9	57.1
6668	1/25/2024	4:40:00 PM	4:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	90.1	88.7	72.7
6669	1/25/2024	4:45:00 PM	4:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.2	67.5	55.9
6670	1/25/2024	4:50:00 PM	4:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.1	68.1	56.1
6671	1/25/2024	4:55:00 PM	5:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.6	69.4	61.4
6672	1/25/2024	5:00:00 PM	5:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	78	77.4	66.9
6673	1/25/2024	5:05:00 PM	5:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	89.4	88.6	76.8
6674	1/25/2024	5:10:00 PM	5:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	87.4	86.6	74.4
6675	1/25/2024	5:15:00 PM	5:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.9	68.1	64.6
6676	1/25/2024	5:20:00 PM	5:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.1	66.5	54
6677	1/25/2024	5:25:00 PM	5:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.4	68.7	58.4

6678	1/25/2024	5:30:00 PM	5:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.8	68.1	58.3
6679	1/25/2024	5:35:00 PM	5:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.7	66.1	56.2
6680	1/25/2024	5:40:00 PM	5:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	74.7	73.7	63.5
6681	1/25/2024	5:45:00 PM	5:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	90.4	89.5	77
6682	1/25/2024	5:50:00 PM	5:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	72.8	71.2	63
6683	1/25/2024	5:55:00 PM	6:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69	67.2	52.3
6684	1/25/2024	6:00:00 PM	6:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.1	69.3	56.9
6685	1/25/2024	6:05:00 PM	6:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	73.2	71.7	57.1
6686	1/25/2024	6:10:00 PM	6:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	79.7	78.7	69.6
6687	1/25/2024	6:15:00 PM	6:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	88	86.9	71.4
6688	1/25/2024	6:20:00 PM	6:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.6	68	55.8
6689	1/25/2024	6:25:00 PM	6:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.3	69.3	57.4
6690	1/25/2024	6:30:00 PM	6:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	86.4	85.4	70.1
6691	1/25/2024	6:35:00 PM	6:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.7	64.8	52.7
6692	1/25/2024	6:40:00 PM	6:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	82.2	81.4	67.8
6693	1/25/2024	6:45:00 PM	6:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	92.5	91.4	78.7
6694	1/25/2024	6:50:00 PM	6:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.2	63	51.1
6695	1/25/2024	6:55:00 PM	7:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	79.2	78.2	69.9
6696	1/25/2024	7:00:00 PM	7:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.3	69.1	54.3
6697	1/25/2024	7:05:00 PM	7:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.2	70	54
6698	1/25/2024	7:10:00 PM	7:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	76.8	75.9	58.2
6699	1/25/2024	7:15:00 PM	7:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67	65	53.4
6700	1/25/2024	7:20:00 PM	7:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.1	65.4	53.9
6701	1/25/2024	7:25:00 PM	7:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.1	69	58.2
6702	1/25/2024	7:30:00 PM	7:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	74.8	74	65.1
6703	1/25/2024	7:35:00 PM	7:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.1	65.5	53.2
6704	1/25/2024	7:40:00 PM	7:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.3	66.6	53.6
6705	1/25/2024	7:45:00 PM	7:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	84	81.8	67.7
6706	1/25/2024	7:50:00 PM	7:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	90.6	88	71.2
6707	1/25/2024	7:55:00 PM	8:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	65.6	63.8	52.1
6708	1/25/2024	8:00:00 PM	8:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64.3	62.2	52.4
6709	1/25/2024	8:05:00 PM	8:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64.6	62.4	51.2
6710	1/25/2024	8:10:00 PM	8:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.4	64.4	54.7
6711	1/25/2024	8:15:00 PM	8:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64.6	62.1	51.8
6712	1/25/2024	8:20:00 PM	8:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	65.3	63.3	51
6713	1/25/2024	8:25:00 PM	8:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64.5	62.4	51.3
6714	1/25/2024	8:30:00 PM	8:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64.6	62.7	51.1
6715	1/25/2024	8:35:00 PM	8:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	91.1	90.6	80.8
6716	1/25/2024	8:40:00 PM	8:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	65	63.1	51.5
6717	1/25/2024	8:45:00 PM	8:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	63.6	61.2	50.4
6718	1/25/2024	8:50:00 PM	8:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	63.5	61.3	50.9
6719	1/25/2024	8:55:00 PM	9:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	65	62.7	51
6720	1/25/2024	9:00:00 PM	9:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.4	64.9	52.2



6721	1/25/2024	9:05:00 PM	9:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64.4	62.2	51.7
6722	1/25/2024	9:10:00 PM	9:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	65.2	63.3	52.2
6723	1/25/2024	9:15:00 PM	9:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	84.7	83.6	71.9
6724	1/25/2024	9:20:00 PM	9:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.1	63	51.1
6725	1/25/2024	9:25:00 PM	9:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	65.5	63.2	52.2
6726	1/25/2024	9:30:00 PM	9:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	93.9	91.5	74.4
6727	1/25/2024	9:35:00 PM	9:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	72	70	51.9
6728	1/25/2024	9:40:00 PM	9:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	89.3	87.2	73.8
6729	1/25/2024	9:45:00 PM	9:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	92.2	91.1	78.4
6730	1/25/2024	9:50:00 PM	9:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.9	66.8	51.3
6731	1/25/2024	9:55:00 PM	10:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	93.5	92.3	79.5
6732	1/25/2024	10:00:00 PM	10:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	90.7	89	70.2
6733	1/25/2024	10:05:00 PM	10:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	87.9	86.1	68.7
6734	1/25/2024	10:10:00 PM	10:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	91	89.2	70.5
6735	1/25/2024	10:15:00 PM	10:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	86.6	84.2	69.1
6736	1/25/2024	10:20:00 PM	10:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	86.4	83.9	68.7
6737	1/25/2024	10:25:00 PM	10:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	95.1	94.2	79.3
6738	1/25/2024	10:30:00 PM	10:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	89.9	88.8	74.6
6739	1/25/2024	10:35:00 PM	10:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	65.1	62.6	50.5
6740	1/25/2024	10:40:00 PM	10:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	90	89.3	76.6
6741	1/25/2024	10:45:00 PM	10:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	88.2	86.8	75.2
6742	1/25/2024	10:50:00 PM	10:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64.3	61.8	51.8
6743	1/25/2024	10:55:00 PM	11:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	85.5	84.1	72.6
6744	1/25/2024	11:00:00 PM	11:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	63.8	61.8	54.3
6745	1/25/2024	11:05:00 PM	11:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	63.3	61.2	53.5
6746	1/25/2024	11:10:00 PM	11:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64	61.7	53.5
6747	1/25/2024	11:15:00 PM	11:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	63.5	61.5	54.1
6748	1/25/2024	11:20:00 PM	11:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	62.5	60.6	51.6
6749	1/25/2024	11:25:00 PM	11:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	63.6	61.5	53.3
6750	1/25/2024	11:30:00 PM	11:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64.8	62.9	52.1
6751	1/25/2024	11:35:00 PM	11:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	85.8	85.2	80.1
6752	1/25/2024	11:40:00 PM	11:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	63.2	60.5	51.7
6753	1/25/2024	11:45:00 PM	11:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.9	59.8	49.2
6754	1/25/2024	11:50:00 PM	11:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	62.4	60	50.9
6755	1/25/2024	11:55:00 PM	12:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	85.7	84.6	69.6
6756	1/26/2024	12:00:00 AM	12:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	60.8	58.6	50.4
6757	1/26/2024	12:05:00 AM	12:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.5	58.8	48.5
6758	1/26/2024	12:10:00 AM	12:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.8	59.6	48.6
6759	1/26/2024	12:15:00 AM	12:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.6	59.2	48.5
6760	1/26/2024	12:20:00 AM	12:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.5	59	48.7
6761	1/26/2024	12:25:00 AM	12:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.1	66.3	52
6762	1/26/2024	12:30:00 AM	12:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	62.3	60	49.5
6763	1/26/2024	12:35:00 AM	12:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	62.1	59.6	49.2

6764	1/26/2024	12:40:00 AM	12:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.2	59	49.8
6765	1/26/2024	12:45:00 AM	12:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	62.8	60.3	50.9
6766	1/26/2024	12:50:00 AM	12:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.5	59.8	52.1
6767	1/26/2024	12:55:00 AM	1:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	78.6	77.3	66.8
6768	1/26/2024	1:00:00 AM	1:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	91.5	90.4	76.3
6769	1/26/2024	1:05:00 AM	1:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	74.4	72.9	63.3
6770	1/26/2024	1:10:00 AM	1:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.4	59.4	51.8
6771	1/26/2024	1:15:00 AM	1:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	60.7	58.3	50.8
6772	1/26/2024	1:20:00 AM	1:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	60.6	58.2	50.8
6773	1/26/2024	1:25:00 AM	1:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.3	59.4	51.5
6774	1/26/2024	1:30:00 AM	1:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	60.9	58.8	52.1
6775	1/26/2024	1:35:00 AM	1:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	60.7	59	52.7
6776	1/26/2024	1:40:00 AM	1:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.5	59.8	53.2
6777	1/26/2024	1:45:00 AM	1:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	59.6	57.6	49.1
6778	1/26/2024	1:50:00 AM	1:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	60.2	57.7	47.6
6779	1/26/2024	1:55:00 AM	2:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	60.2	57.9	47.2
6780	1/26/2024	2:00:00 AM	2:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.4	59.2	47.7
6781	1/26/2024	2:05:00 AM	2:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	91.1	90.2	77.1
6782	1/26/2024	2:10:00 AM	2:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61	58.4	47.2
6783	1/26/2024	2:15:00 AM	2:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.8	59.6	47.8
6784	1/26/2024	2:20:00 AM	2:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	87.1	86.1	74.3
6785	1/26/2024	2:25:00 AM	2:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	60.7	58.2	48.6
6786	1/26/2024	2:30:00 AM	2:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.1	58.8	49.1
6787	1/26/2024	2:35:00 AM	2:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	60.8	58.8	49.8
6788	1/26/2024	2:40:00 AM	2:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	62	59.5	49.5
6789	1/26/2024	2:45:00 AM	2:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.8	65.8	51.5
6790	1/26/2024	2:50:00 AM	2:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61	58.4	48.7
6791	1/26/2024	2:55:00 AM	3:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	60.9	58.7	50.5
6792	1/26/2024	3:00:00 AM	3:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.5	59.4	50.3
6793	1/26/2024	3:05:00 AM	3:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.5	58.9	49.3
6794	1/26/2024	3:10:00 AM	3:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64.3	62.7	48.8
6795	1/26/2024	3:15:00 AM	3:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.6	58.9	47.7
6796	1/26/2024	3:20:00 AM	3:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.2	58.6	47.3
6797	1/26/2024	3:25:00 AM	3:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	62.2	60.1	48.2
6798	1/26/2024	3:30:00 AM	3:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	62.4	60.3	48
6799	1/26/2024	3:35:00 AM	3:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	61.6	59.1	48
6800	1/26/2024	3:40:00 AM	3:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	91.5	90.6	77.6
6801	1/26/2024	3:45:00 AM	3:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	81.7	80.2	67.6
6802	1/26/2024	3:50:00 AM	3:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	92.5	90.5	73
6803	1/26/2024	3:55:00 AM	4:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	94.3	91.3	73.9
6804	1/26/2024	4:00:00 AM	4:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	92.2	91.2	77.5
6805	1/26/2024	4:05:00 AM	4:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.1	68.7	57.8
6806	1/26/2024	4:10:00 AM	4:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	63.1	61	53.3

6807	1/26/2024	4:15:00 AM	4:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	63.4	61.9	53.2
6808	1/26/2024	4:20:00 AM	4:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	63.9	62.1	53
6809	1/26/2024	4:25:00 AM	4:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	64.3	62.5	54.4
6810	1/26/2024	4:30:00 AM	4:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	65.7	64.1	55.1
6811	1/26/2024	4:35:00 AM	4:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66	64.5	57.2
6812	1/26/2024	4:40:00 AM	4:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66	64.2	56.1
6813	1/26/2024	4:45:00 AM	4:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	90.9	90.2	77.9
6814	1/26/2024	4:50:00 AM	4:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.2	64.3	55.7
6815	1/26/2024	4:55:00 AM	5:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.2	64.6	56.7
6816	1/26/2024	5:00:00 AM	5:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.2	64.3	56.6
6817	1/26/2024	5:05:00 AM	5:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.2	64.7	57.3
6818	1/26/2024	5:10:00 AM	5:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.4	66.2	60
6819	1/26/2024	5:15:00 AM	5:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.7	68.7	60.5
6820	1/26/2024	5:20:00 AM	5:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.5	67.2	61
6821	1/26/2024	5:25:00 AM	5:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.1	66.8	60.8
6822	1/26/2024	5:30:00 AM	5:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.7	67.3	61.8
6823	1/26/2024	5:35:00 AM	5:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.6	68.2	61.2
6824	1/26/2024	5:40:00 AM	5:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.6	68.2	61.2
6825	1/26/2024	5:45:00 AM	5:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.1	68.8	61.8
6826	1/26/2024	5:50:00 AM	5:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70	68.7	61
6827	1/26/2024	5:55:00 AM	6:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.5	67.1	59.8
6828	1/26/2024	6:00:00 AM	6:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	73.8	72.9	64.3
6829	1/26/2024	6:05:00 AM	6:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68	66.2	58
6830	1/26/2024	6:10:00 AM	6:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.1	68.4	58.7
6831	1/26/2024	6:15:00 AM	6:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.6	66.6	57.2
6832	1/26/2024	6:20:00 AM	6:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.8	66.5	56.8
6833	1/26/2024	6:25:00 AM	6:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	90.9	87.8	73.5
6834	1/26/2024	6:30:00 AM	6:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.3	66.9	56.2
6835	1/26/2024	6:35:00 AM	6:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	72.3	70.6	57.1
6836	1/26/2024	6:40:00 AM	6:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.6	68.7	57.1
6837	1/26/2024	6:45:00 AM	6:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.6	68.7	58.2
6838	1/26/2024	6:50:00 AM	6:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	84	83.2	74.6
6839	1/26/2024	6:55:00 AM	7:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	77.9	76.6	63.1
6840	1/26/2024	7:00:00 AM	7:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	72.5	70.6	59.8
6841	1/26/2024	7:05:00 AM	7:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	85.8	84.5	70.2
6842	1/26/2024	7:10:00 AM	7:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	80.3	78.5	65.7
6843	1/26/2024	7:15:00 AM	7:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.4	70.1	61
6844	1/26/2024	7:20:00 AM	7:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	89.5	88.7	78.3
6845	1/26/2024	7:25:00 AM	7:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	84.6	83.4	69.1
6846	1/26/2024	7:30:00 AM	7:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.4	69.6	58.7
6847	1/26/2024	7:35:00 AM	7:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.3	70	59.6
6848	1/26/2024	7:40:00 AM	7:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.4	67.2	56.4
6849	1/26/2024	7:45:00 AM	7:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.8	68.9	56.1

6850	1/26/2024	7:50:00 AM	7:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.5	68.1	55.7
6851	1/26/2024	7:55:00 AM	8:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71	69	56.3
6852	1/26/2024	8:00:00 AM	8:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	76.7	75.8	66.5
6853	1/26/2024	8:05:00 AM	8:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	78.5	77.8	64.6
6854	1/26/2024	8:10:00 AM	8:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71	68.8	55.3
6855	1/26/2024	8:15:00 AM	8:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.6	68.4	56.7
6856	1/26/2024	8:20:00 AM	8:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	94.2	92.7	78.9
6857	1/26/2024	8:25:00 AM	8:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.4	67.8	53.8
6858	1/26/2024	8:30:00 AM	8:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	83.6	81	65.5
6859	1/26/2024	8:35:00 AM	8:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	92.5	89.6	71.4
6860	1/26/2024	8:40:00 AM	8:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.1	68.3	56.3
6861	1/26/2024	8:45:00 AM	8:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.5	68.6	57.1
6862	1/26/2024	8:50:00 AM	8:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.1	69.1	57.4
6863	1/26/2024	8:55:00 AM	9:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.4	68.8	55.1
6864	1/26/2024	9:00:00 AM	9:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	77.5	75.4	61.1
6865	1/26/2024	9:05:00 AM	9:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	89.9	89.2	77.8
6866	1/26/2024	9:10:00 AM	9:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.2	68.1	58.2
6867	1/26/2024	9:15:00 AM	9:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.7	69	58.7
6868	1/26/2024	9:20:00 AM	9:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	76.8	75.8	58.3
6869	1/26/2024	9:25:00 AM	9:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	80.9	80.1	60.2
6870	1/26/2024	9:30:00 AM	9:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.7	68.5	54.6
6871	1/26/2024	9:35:00 AM	9:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.4	68.2	55.3
6872	1/26/2024	9:40:00 AM	9:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.4	67.1	53.7
6873	1/26/2024	9:45:00 AM	9:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.7	66.7	53
6874	1/26/2024	9:50:00 AM	9:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.8	70.1	53.3
6875	1/26/2024	9:55:00 AM	10:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	90.5	89.8	77.3
6876	1/26/2024	10:00:00 AM	10:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	75.5	73.7	65.2
6877	1/26/2024	10:05:00 AM	10:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.1	64.4	52.3
6878	1/26/2024	10:10:00 AM	10:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.6	66.4	53
6879	1/26/2024	10:15:00 AM	10:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.2	66	54.6
6880	1/26/2024	10:20:00 AM	10:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.5	66.3	55.2
6881	1/26/2024	10:25:00 AM	10:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67	64.4	52.9
6882	1/26/2024	10:30:00 AM	10:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.9	66.6	52.4
6883	1/26/2024	10:35:00 AM	10:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.5	68.3	52.6
6884	1/26/2024	10:40:00 AM	10:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.9	65.8	51.3
6885	1/26/2024	10:45:00 AM	10:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.7	63.9	50
6886	1/26/2024	10:50:00 AM	10:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	71.2	69.7	52.9
6887	1/26/2024	10:55:00 AM	11:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	70.2	66.9	51.8
6888	1/26/2024	11:00:00 AM	11:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	74.8	73.2	53.9
6889	1/26/2024	11:05:00 AM	11:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.2	63.7	51.1
6890	1/26/2024	11:10:00 AM	11:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	65.5	62.9	50.4
6891	1/26/2024	11:15:00 AM	11:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.2	64.6	52.3
6892	1/26/2024	11:20:00 AM	11:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.4	65.3	50.3

6893	1/26/2024	11:25:00 AM	11:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.3	63	51.2
6894	1/26/2024	11:30:00 AM	11:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	90.3	89.2	78.3
6895	1/26/2024	11:35:00 AM	11:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	81.1	78.8	66.6
6896	1/26/2024	11:40:00 AM	11:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	88.7	87.7	76.2
6897	1/26/2024	11:45:00 AM	11:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	73.5	71.5	58
6898	1/26/2024	11:50:00 AM	11:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.3	64.8	49.5
6899	1/26/2024	11:55:00 AM	12:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	84.4	82.9	71
6900	1/26/2024	12:00:00 PM	12:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.7	64.7	51.8
6901	1/26/2024	12:05:00 PM	12:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.7	65	55.3
6902	1/26/2024	12:10:00 PM	12:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.3	65.6	54.8
6903	1/26/2024	12:15:00 PM	12:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.9	68.2	55.4
6904	1/26/2024	12:20:00 PM	12:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69	66	54.4
6905	1/26/2024	12:25:00 PM	12:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.2	66	54.9
6906	1/26/2024	12:30:00 PM	12:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	69.8	67	54.4
6907	1/26/2024	12:35:00 PM	12:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.8	65	53.2
6908	1/26/2024	12:40:00 PM	12:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67	64.3	54.5
6909	1/26/2024	12:45:00 PM	12:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	87	85.9	73.8
6910	1/26/2024	12:50:00 PM	12:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.5	65.5	54.2
6911	1/26/2024	12:55:00 PM	1:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68	64.6	53.1
6912	1/26/2024	1:00:00 PM	1:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.5	64.2	52.1
6913	1/26/2024	1:05:00 PM	1:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.9	64.4	52.8
6914	1/26/2024	1:10:00 PM	1:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.9	64.9	53.8
6915	1/26/2024	1:15:00 PM	1:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.1	63.5	52
6916	1/26/2024	1:20:00 PM	1:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	68.2	65.7	52.2
6917	1/26/2024	1:25:00 PM	1:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	66.6	63.1	51.1
6918	1/26/2024	1:30:00 PM	1:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	67.4	64.3	51.3
6919	1/26/2024	1:35:00 PM	1:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	19.99mV/Pa	73.3	71.7	55.8
6920	1/26/2024	1:40:00 PM	1:41:25 PM	0:01:25	Auto	Low	Mic	Slow	dBA	Yes	No	19.99mV/Pa	81.5	81.1	80.2

Attachment B:  
LT-2 Field Noise Data

## LT2

Number	Start Date	Start Time	End Time	Duration	Meas	Moc	Input Rang	Input Type	SPL Time	V	LN%	Freq	\	Overload	UnderRan	Sensitivity	LAeq	LASmax	LASmin	LAE	LApk	LAS10%	LAS50%	LAS90%
1	1/30/2024	11:25:16 AM	11:30:00 AM	0:04:44	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	76.3	91.2	48.6	100.8	117.7	80.3	68.9	52.1				
2	1/30/2024	11:30:00 AM	11:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.7	61.6	48.4	77.5	79.4	54.2	51.6	49.6				
3	1/30/2024	11:35:00 AM	11:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.2	67	46.9	76	89.6	53	49.7	48.2				
4	1/30/2024	11:40:00 AM	11:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.7	61.1	49.3	77.5	85.3	54.6	51.7	50.3				
5	1/30/2024	11:45:00 AM	11:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.6	69	49.3	79.4	88.7	55.7	51.6	50.4				
6	1/30/2024	11:50:00 AM	11:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	62.1	79.8	47.7	86.9	88.8	63	53.4	48.8				
7	1/30/2024	11:55:00 AM	12:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.4	70.9	46.9	80.2	88.1	56.2	49.5	47.8				
8	1/30/2024	12:00:00 PM	12:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.2	72.3	47.6	81	84.1	58.7	50.7	48.4				
9	1/30/2024	12:05:00 PM	12:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	57.1	48.7	76.7	80.1	53.9	51.1	49.7				
10	1/30/2024	12:10:00 PM	12:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	61.2	77.9	47.6	86	94.5	57.8	51.2	48.6				
11	1/30/2024	12:15:00 PM	12:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.5	64.6	48.2	78.3	89.5	56.1	51.3	49.3				
12	1/30/2024	12:20:00 PM	12:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	73.3	87.3	47.8	98.1	101.2	78.5	51.2	48.6				
13	1/30/2024	12:25:00 PM	12:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	69.1	79.9	48.3	93.9	95.6	76.2	53.4	50.1				
14	1/30/2024	12:30:00 PM	12:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	75.1	89.9	47.7	99.9	102.1	77	71.1	49.7				
15	1/30/2024	12:35:00 PM	12:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	70.4	86.7	49.5	95.2	100.6	73.7	58.2	50.3				
16	1/30/2024	12:40:00 PM	12:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	62.8	76.2	49.6	87.6	94.5	66.9	54.7	51.3				
17	1/30/2024	12:45:00 PM	12:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	58.2	72.6	46.9	83	88.6	63.2	52	49.3				
18	1/30/2024	12:50:00 PM	12:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.7	55.9	47.2	75.5	79.2	52.2	50.4	48.6				
19	1/30/2024	12:55:00 PM	1:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56	68.5	47.4	80.8	83.8	57	54.8	50.7				
20	1/30/2024	1:00:00 PM	1:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	59	72.2	51.4	83.8	88.3	63.4	54	52.7				
21	1/30/2024	1:05:00 PM	1:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.5	56.8	51.8	78.3	74.5	54.5	53.3	52.5				
22	1/30/2024	1:10:00 PM	1:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51	57.6	46.9	75.8	75.8	53.1	50.5	48.5				
23	1/30/2024	1:15:00 PM	1:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	78.2	93.3	49.2	103	106.4	80.1	53.2	51.2				
24	1/30/2024	1:20:00 PM	1:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.9	61.4	49.3	78.7	76.3	56.4	52.8	50.4				
25	1/30/2024	1:25:00 PM	1:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.5	55.7	49.9	77.3	74.8	53.9	52.2	51.1				
26	1/30/2024	1:30:00 PM	1:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.3	58	48.8	78.1	73.4	55.7	52.7	51				
27	1/30/2024	1:35:00 PM	1:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	76.7	92.5	50	101.5	104.8	79.8	57.9	52.3				
28	1/30/2024	1:40:00 PM	1:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	72.3	92.2	49.1	97.1	105.4	55.6	52.5	50.5				
29	1/30/2024	1:45:00 PM	1:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.7	64.8	48.4	78.5	82.8	56.4	51.8	49.4				
30	1/30/2024	1:50:00 PM	1:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.7	60	47.4	77.5	80.1	55.2	51.9	49.6				
31	1/30/2024	1:55:00 PM	2:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	77.6	93	50	102.4	105.8	78.8	72.3	50.9				
32	1/30/2024	2:00:00 PM	2:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.8	67.8	48.2	78.6	85.2	55.6	52	49.2				
33	1/30/2024	2:05:00 PM	2:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.5	68.8	47.7	79.3	82.8	55.2	50.7	48.8				
34	1/30/2024	2:10:00 PM	2:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.7	58.7	47.6	75.5	81.2	52.4	49.9	48.7				
35	1/30/2024	2:15:00 PM	2:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.1	62	46.6	76.9	82	55.6	50	47.6				
36	1/30/2024	2:20:00 PM	2:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.2	66.9	47.1	78	82.9	55	51.5	49.8				
37	1/30/2024	2:25:00 PM	2:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.2	70.1	49.1	81	83.5	56.6	53	50.8				
38	1/30/2024	2:30:00 PM	2:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	59.8	73.9	48.6	84.6	88.5	63.1	52.4	50.5				
39	1/30/2024	2:35:00 PM	2:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.9	67.1	49.6	79.7	82.7	57	53.2	50.7				
40	1/30/2024	2:40:00 PM	2:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.8	63.9	49.8	79.6	78.3	56.5	53.5	51.6				
41	1/30/2024	2:45:00 PM	2:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.8	59.2	49.7	78.6	81.8	55.7	53.1	51.3				
42	1/30/2024	2:50:00 PM	2:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.8	67.7	51	80.6	81.7	57.6	53.4	51.9				
43	1/30/2024	2:55:00 PM	3:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.9	62.5	51.2	79.7	76.1	56.6	54.1	52.1				
44	1/30/2024	3:00:00 PM	3:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.5	65.8	49.8	78.3	82.6	55.2	52.4	50.9				
45	1/30/2024	3:05:00 PM	3:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.9	65.9	49.9	78.7	82.8	56	52.7	50.9				
46	1/30/2024	3:10:00 PM	3:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53	59.8	49.6	77.8	81	55.7	51.9	50.4				
47	1/30/2024	3:15:00 PM	3:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	68	80.8	52.4	92.8	96.4	68.2	55.2	53.4				
48	1/30/2024	3:20:00 PM	3:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.6	60.5	51.4	79.4	77.9	55.9	54.4	52.4				
49	1/30/2024	3:25:00 PM	3:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	79.2	94.8	51.8	104	109.1	80.5	72.9	53.2				
50	1/30/2024	3:30:00 PM	3:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	62.3	80.1	52.3	87.1	95.4	57.2	55.1	53.4				
51	1/30/2024	3:35:00 PM	3:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.6	67	52.5	81.4	79	58	55.7	53.9				
52	1/30/2024	3:40:00 PM	3:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	73.7	84.9	52.5	98.5	99.5	78.6	55.7	53.9				

53	1/30/2024	3:45:00 PM	3:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.6	66.3	52.5	80.4	83.9	57.1	55.1	53.4
54	1/30/2024	3:50:00 PM	3:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.2	61.7	53.5	81	78.3	57.7	55.6	54.6
55	1/30/2024	3:55:00 PM	4:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.8	63	52.3	80.6	76.9	57.6	55.1	53.7
56	1/30/2024	4:00:00 PM	4:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	59.7	69.5	53.1	84.5	87.9	63.6	55.6	54.2
57	1/30/2024	4:05:00 PM	4:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.5	61.8	52.5	80.3	83.5	56.7	55.2	53.8
58	1/30/2024	4:10:00 PM	4:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.7	58	52.7	79.5	77.8	55.9	54.6	53.4
59	1/30/2024	4:15:00 PM	4:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	65.1	82.9	52.5	89.9	97.7	61.7	55.4	53.6
60	1/30/2024	4:20:00 PM	4:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.3	62.8	52.6	80.1	79.3	56.6	55.2	53.4
61	1/30/2024	4:25:00 PM	4:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	62	78	53.4	86.8	91.2	58.2	55.9	54.3
62	1/30/2024	4:30:00 PM	4:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.1	63	53.1	80.9	78.9	58.1	55.3	53.9
63	1/30/2024	4:35:00 PM	4:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.1	61.9	52.8	79.9	75.8	56.3	54.6	53.7
64	1/30/2024	4:40:00 PM	4:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	61.7	78.8	51.1	86.5	87.8	62.3	54.3	51.9
65	1/30/2024	4:45:00 PM	4:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.7	62.5	50.7	78.5	78.3	55.2	53.2	51.9
66	1/30/2024	4:50:00 PM	4:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.9	66.4	49.2	78.7	77.5	55.3	52.9	51
67	1/30/2024	4:55:00 PM	5:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53	61.4	48.4	77.8	78.3	55.6	51.8	49.2
68	1/30/2024	5:00:00 PM	5:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.4	63.5	48	77.2	80.1	54.4	51.4	49.5
69	1/30/2024	5:05:00 PM	5:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	73.3	84.1	49	98.1	97.8	77.6	58.4	51.7
70	1/30/2024	5:10:00 PM	5:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.4	56.9	48	76.2	75.5	53.1	50.9	49.3
71	1/30/2024	5:15:00 PM	5:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.8	66.7	46.2	80.6	85.1	60.2	50.4	47.8
72	1/30/2024	5:20:00 PM	5:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.1	66.9	47.5	77.9	76.4	54.9	50.3	48.6
73	1/30/2024	5:25:00 PM	5:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	73.4	86.2	47.3	98.2	99.3	77.3	62.2	49
74	1/30/2024	5:30:00 PM	5:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50	55.2	46.5	74.8	71.5	52	49.5	47.7
75	1/30/2024	5:35:00 PM	5:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	72	84.9	46.5	96.8	98.3	76.8	53.8	48.1
76	1/30/2024	5:40:00 PM	5:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	Yes	18.44mV/Pa	69.4	78.9	46.6	94.2	94.8	75.2	52.9	48.6
77	1/30/2024	5:45:00 PM	5:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	62.3	77.7	46.8	87.1	93.6	61.4	51.1	48.4
78	1/30/2024	5:50:00 PM	5:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.9	60.9	46.7	75.7	86.4	52.8	50.2	47.9
79	1/30/2024	5:55:00 PM	6:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	Yes	18.44mV/Pa	52.7	65.7	45.6	77.5	85.5	55.6	50.5	47
80	1/30/2024	6:00:00 PM	6:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	Yes	18.44mV/Pa	51.1	61.5	46.1	75.9	82.6	53.4	49.4	47.5
81	1/30/2024	6:05:00 PM	6:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.6	62.2	46.6	75.4	80	52.3	49.9	47.6
82	1/30/2024	6:10:00 PM	6:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.8	60.8	46.5	76.6	82.3	55.4	49.8	47.7
83	1/30/2024	6:15:00 PM	6:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	64.4	81.8	46.8	89.2	98.7	53.5	50.6	48.3
84	1/30/2024	6:20:00 PM	6:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	67.6	85.4	47.1	92.4	97.8	56.4	49.3	48
85	1/30/2024	6:25:00 PM	6:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	68.5	75.6	54.9	93.3	91	72.9	67	55.4
86	1/30/2024	6:30:00 PM	6:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.8	69.9	54.9	82.6	86.1	59.6	56.4	55.3
87	1/30/2024	6:35:00 PM	6:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.2	64.8	55.2	82	88.1	58.3	56.7	55.6
88	1/30/2024	6:40:00 PM	6:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.1	65.4	55.1	81.9	89.8	58.2	56.6	55.8
89	1/30/2024	6:45:00 PM	6:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	71.5	87.5	55.1	96.3	106.4	74.1	63.2	56.4
90	1/30/2024	6:50:00 PM	6:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	70.5	79.5	48.4	95.3	95.2	75.3	55	50.1
91	1/30/2024	6:55:00 PM	7:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	79	93	49.6	103.8	106.1	81.7	60.7	51.5
92	1/30/2024	7:00:00 PM	7:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.8	62	47.4	77.6	81.6	54.9	52.1	49
93	1/30/2024	7:05:00 PM	7:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	78.5	92.4	49.3	103.3	106.8	80.1	74.4	51.7
94	1/30/2024	7:10:00 PM	7:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53	65.7	48.8	77.8	90.5	55	52.1	50
95	1/30/2024	7:15:00 PM	7:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52	60.8	48.7	76.8	78	53.5	51.6	50.1
96	1/30/2024	7:20:00 PM	7:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	77.3	92.7	50.9	102.1	105.1	79.4	66.8	53.2
97	1/30/2024	7:25:00 PM	7:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	58.7	70.7	52.6	83.5	87.7	62.3	55.2	53.7
98	1/30/2024	7:30:00 PM	7:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	71.6	87.9	51.8	96.4	101.6	66	54.1	52.7
99	1/30/2024	7:35:00 PM	7:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.5	66	51.6	79.3	84	55.5	54	52.3
100	1/30/2024	7:40:00 PM	7:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.6	56	51.1	78.4	70.3	54.9	53.5	52
101	1/30/2024	7:45:00 PM	7:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.3	57.4	52.7	79.1	70.3	55.3	54.2	53.2
102	1/30/2024	7:50:00 PM	7:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54	56.7	52.3	78.8	71.4	54.8	54	53
103	1/30/2024	7:55:00 PM	8:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.5	63.5	53.2	81.3	77.7	57.8	55.9	54.5
104	1/30/2024	8:00:00 PM	8:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	74.1	88.9	53.5	98.9	108.2	78	59.8	54.3
105	1/30/2024	8:05:00 PM	8:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	64.2	77.2	53.7	89	94.7	64.6	56.8	55.4
106	1/30/2024	8:10:00 PM	8:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.1	63.8	52.9	80.9	81.1	57.8	55.2	53.8
107	1/30/2024	8:15:00 PM	8:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	59.1	71.7	50.9	83.9	87.4	59.5	53.8	52.1



108	1/30/2024	8:20:00 PM	8:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	75.3	87.6	52.4	100.1	104.2	80	58.5	54.3
109	1/30/2024	8:25:00 PM	8:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.1	58.6	53.2	79.9	72	56.3	54.9	53.9
110	1/30/2024	8:30:00 PM	8:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.3	57.2	52.6	79.1	70	55.1	54.3	53.3
111	1/30/2024	8:35:00 PM	8:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.5	61.4	52.3	79.3	73.8	55.3	53.9	53.2
112	1/30/2024	8:40:00 PM	8:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55	56.8	52.9	79.8	70.4	56.1	54.8	53.6
113	1/30/2024	8:45:00 PM	8:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.5	64.4	53.4	81.3	82.3	58.9	55.4	54.3
114	1/30/2024	8:50:00 PM	8:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.6	59.1	54.6	81.4	73.6	57.8	56.3	55.4
115	1/30/2024	8:55:00 PM	9:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.9	60.6	53.4	80.7	75.1	57.4	55.5	54.1
116	1/30/2024	9:00:00 PM	9:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54	56.5	52.4	78.8	71	54.8	53.8	53
117	1/30/2024	9:05:00 PM	9:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.7	54.6	50.9	77.5	67.7	53.5	52.7	51.8
118	1/30/2024	9:10:00 PM	9:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.2	55.9	51	78	70.3	54.5	53	51.8
119	1/30/2024	9:15:00 PM	9:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.6	56	49.6	77.4	68.8	54	52.4	51
120	1/30/2024	9:20:00 PM	9:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.3	55.3	49.9	78.1	68.7	54.5	53.3	51.9
121	1/30/2024	9:25:00 PM	9:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.3	57.1	50.7	78.1	92.9	54.5	53	52
122	1/30/2024	9:30:00 PM	9:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.8	63.2	51.5	78.6	77.9	54.7	53.2	52.4
123	1/30/2024	9:35:00 PM	9:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.1	57.3	50.5	77.9	72.6	54.3	52.9	51.6
124	1/30/2024	9:40:00 PM	9:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.4	58.7	50.8	78.2	72.1	54.4	53.1	51.9
125	1/30/2024	9:45:00 PM	9:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.8	57.2	51.1	77.6	69.4	53.8	52.6	52
126	1/30/2024	9:50:00 PM	9:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	58.5	50.2	76.7	78.2	52.8	51.6	50.9
127	1/30/2024	9:55:00 PM	10:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.8	53.7	50.5	76.6	68.8	52.6	51.6	51
128	1/30/2024	10:00:00 PM	10:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	75.9	94.4	51.1	100.7	106.1	72.6	52.4	51.6
129	1/30/2024	10:05:00 PM	10:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	75.3	91.9	49.6	100.1	105.2	78.2	53.5	50.2
130	1/30/2024	10:10:00 PM	10:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.3	63.8	49.6	77.1	74.8	52.6	51.3	50.3
131	1/30/2024	10:15:00 PM	10:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.7	55.4	50.2	76.5	69.5	52.7	51.4	50.8
132	1/30/2024	10:20:00 PM	10:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	54.7	49.9	76.7	70.8	53.1	51.8	50.7
133	1/30/2024	10:25:00 PM	10:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.5	62.1	48.5	76.3	73.5	52.9	50.5	49.3
134	1/30/2024	10:30:00 PM	10:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	77	93.1	49.5	101.8	105.9	78.6	69.6	51.3
135	1/30/2024	10:35:00 PM	10:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.1	57.3	49.3	76.9	75.7	53.7	51.3	50.5
136	1/30/2024	10:40:00 PM	10:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.2	61.3	49.9	78	73.1	54.5	52.3	50.8
137	1/30/2024	10:45:00 PM	10:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.2	55.9	50.4	78	72.8	54.5	53	51.5
138	1/30/2024	10:50:00 PM	10:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	76	91.1	50.9	100.8	103.6	73.1	53.4	52
139	1/30/2024	10:55:00 PM	11:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	77	88.1	49.9	101.8	102.7	83	53.4	50.5
140	1/30/2024	11:00:00 PM	11:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.5	56	49.6	76.3	75.2	52.8	51.2	50.1
141	1/30/2024	11:05:00 PM	11:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.5	55.7	48.4	75.3	71.4	51.7	50.1	49.2
142	1/30/2024	11:10:00 PM	11:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.4	53	48.5	75.2	66.6	51.5	50.2	49.3
143	1/30/2024	11:15:00 PM	11:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52	59.2	49.2	76.8	74	53.5	50.8	49.6
144	1/30/2024	11:20:00 PM	11:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.6	54.6	49.5	76.4	68.8	52.7	51.4	50.4
145	1/30/2024	11:25:00 PM	11:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	61.6	78	49.3	86.4	92.6	59.9	51.9	50.6
146	1/30/2024	11:30:00 PM	11:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	58	49.4	76.7	75.1	53.4	51.6	50.3
147	1/30/2024	11:35:00 PM	11:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.8	54.8	49.4	76.6	68.5	52.9	51.6	50.7
148	1/30/2024	11:40:00 PM	11:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.7	56	49.5	76.5	73.7	52.9	51.4	50.4
149	1/30/2024	11:45:00 PM	11:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.3	55.1	49.3	76.1	70.3	52.6	50.9	50
150	1/30/2024	11:50:00 PM	11:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.2	65.7	49.5	80	77.6	58.8	51.1	50
151	1/30/2024	11:55:00 PM	12:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	67.2	87.6	49.9	92	104.3	52.7	51.2	50.5
152	1/31/2024	12:00:00 AM	12:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.6	55.6	49.8	76.4	74.3	52.4	51.5	50.5
153	1/31/2024	12:05:00 AM	12:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.1	56.9	50.6	77.9	73.8	54.3	52.8	51.8
154	1/31/2024	12:10:00 AM	12:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.4	57.2	50.6	78.2	69.6	54.8	53	51.8
155	1/31/2024	12:15:00 AM	12:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.3	67.9	50.7	79.1	81.1	55	53.4	51.8
156	1/31/2024	12:20:00 AM	12:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.2	57.6	51.3	79	70.4	55.7	53.9	52.4
157	1/31/2024	12:25:00 AM	12:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.2	59.2	51.1	80	75.7	57.1	54.8	52.6
158	1/31/2024	12:30:00 AM	12:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	78.1	95.4	52.6	102.9	107.5	78	55.6	54
159	1/31/2024	12:35:00 AM	12:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	72.3	88.9	51.2	97.1	102.5	77.4	53.4	51.8
160	1/31/2024	12:40:00 AM	12:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.4	58.9	51.8	79.2	73.6	55.5	54.3	53.1
161	1/31/2024	12:45:00 AM	12:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.2	57.5	51	79	71	55.7	53.9	52.5
162	1/31/2024	12:50:00 AM	12:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	71.9	89.1	52.3	96.7	108.7	71.6	54.8	53.1

163	1/31/2024	12:55:00 AM	1:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.4	56.1	50	78.2	70	55	53.3	51.3
164	1/31/2024	1:00:00 AM	1:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	70.8	83.7	50.1	95.6	101.5	77.7	54.1	51.8
165	1/31/2024	1:05:00 AM	1:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.9	57.3	50.1	77.7	70.5	54.5	52.5	51.3
166	1/31/2024	1:10:00 AM	1:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.1	55.1	49.8	76.9	70.3	53.1	51.9	50.9
167	1/31/2024	1:15:00 AM	1:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.5	65.5	48.9	76.3	91.9	52.2	50.9	49.8
168	1/31/2024	1:20:00 AM	1:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.1	60.3	49.4	76.9	87.7	53.5	51.4	50.2
169	1/31/2024	1:25:00 AM	1:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	76.5	93.8	49.1	101.3	106.4	78.4	52.8	51
170	1/31/2024	1:30:00 AM	1:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	77.7	92.3	49.8	102.5	106.1	80.6	74.6	52
171	1/31/2024	1:35:00 AM	1:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.8	65	49	77.6	82.7	53.7	51.7	50.4
172	1/31/2024	1:40:00 AM	1:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.5	60.3	49.2	77.3	73.5	53.3	52.2	50.9
173	1/31/2024	1:45:00 AM	1:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.6	61.6	49.3	77.4	74.2	54.5	51.7	50.1
174	1/31/2024	1:50:00 AM	1:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.2	54.9	49.1	76	68.6	52.4	51	49.9
175	1/31/2024	1:55:00 AM	2:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.6	53.3	48.6	75.4	70.6	51.6	50.5	49.5
176	1/31/2024	2:00:00 AM	2:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.9	55.4	48.7	75.7	71.5	52.3	50.5	49.4
177	1/31/2024	2:05:00 AM	2:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.4	54.7	49.2	76.2	69.6	52.5	51.2	50.1
178	1/31/2024	2:10:00 AM	2:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.2	52.7	48.1	75	66.4	51.4	50.1	49
179	1/31/2024	2:15:00 AM	2:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	49.5	56.6	47.6	74.3	68.6	50.2	49.3	48.3
180	1/31/2024	2:20:00 AM	2:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.4	54.4	48.2	75.2	67.4	51.8	50	48.8
181	1/31/2024	2:25:00 AM	2:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	71.9	86.7	48.1	96.7	101.1	78.5	51	49
182	1/31/2024	2:30:00 AM	2:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	76.6	87	49.9	101.4	99.4	78.9	76.3	52
183	1/31/2024	2:35:00 AM	2:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	56.6	50	76.7	71.4	53.1	51.5	50.7
184	1/31/2024	2:40:00 AM	2:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	78.1	93.3	49.4	102.9	107.9	79	57.9	50.8
185	1/31/2024	2:45:00 AM	2:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.8	54.6	48.9	75.6	69	52	50.5	49.6
186	1/31/2024	2:50:00 AM	2:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.1	53.3	47.5	74.9	65.8	51.3	50	48.7
187	1/31/2024	2:55:00 AM	3:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	73.3	85.6	48.5	98.1	101.5	80.4	51	49.5
188	1/31/2024	3:00:00 AM	3:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.2	54.3	47.6	75	68.5	51.5	50	48.6
189	1/31/2024	3:05:00 AM	3:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50	53.4	47.7	74.8	69.3	51.3	49.7	48.6
190	1/31/2024	3:10:00 AM	3:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.8	54.4	49.8	76.6	67.6	52.9	51.7	50.6
191	1/31/2024	3:15:00 AM	3:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.8	57.1	49.4	77.6	69.9	54.5	52.4	50.7
192	1/31/2024	3:20:00 AM	3:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.9	56.3	50.9	78.7	71	55	53.9	51.9
193	1/31/2024	3:25:00 AM	3:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.9	55.3	50.8	77.7	68.1	54.1	52.7	51.6
194	1/31/2024	3:30:00 AM	3:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	72.2	82.1	51.3	97	98.7	77.6	54.5	52.5
195	1/31/2024	3:35:00 AM	3:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.9	54.5	51.2	77.7	67.9	53.7	52.8	52.2
196	1/31/2024	3:40:00 AM	3:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53	56.5	50.5	77.8	68.6	54.3	52.7	51.7
197	1/31/2024	3:45:00 AM	3:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.7	67.3	50.9	79.5	79.6	55	53	51.8
198	1/31/2024	3:50:00 AM	3:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	78.8	91.7	52.7	103.6	106	85.7	54.8	53.4
199	1/31/2024	3:55:00 AM	4:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.9	55.8	51.9	78.7	69.6	54.9	53.8	52.7
200	1/31/2024	4:00:00 AM	4:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.8	54.9	50	77.6	67.9	54	52.6	51.4
201	1/31/2024	4:05:00 AM	4:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	54.3	50.4	76.7	68.1	52.8	51.8	51.1
202	1/31/2024	4:10:00 AM	4:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.8	57.3	51.8	78.6	69.3	55.3	53.6	52.2
203	1/31/2024	4:15:00 AM	4:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.2	55.4	49.9	77	69.6	53.4	52.1	50.6
204	1/31/2024	4:20:00 AM	4:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	79.5	93.6	50.4	104.3	106.7	81.6	59.7	51.5
205	1/31/2024	4:25:00 AM	4:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.9	62.7	52.6	82.7	75.5	60.3	57.2	54.8
206	1/31/2024	4:30:00 AM	4:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.3	64.9	50.8	80.1	77.2	58.5	53.1	51.6
207	1/31/2024	4:35:00 AM	4:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.4	63.4	51.1	80.2	75.9	58.5	53.2	51.6
208	1/31/2024	4:40:00 AM	4:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.9	57.1	51.2	77.7	70.5	53.7	52.7	52
209	1/31/2024	4:45:00 AM	4:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.5	58.1	51.7	79.3	73.5	55.9	54.4	53.1
210	1/31/2024	4:50:00 AM	4:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.4	60.8	52	79.2	71.9	55.5	53.9	53
211	1/31/2024	4:55:00 AM	5:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.6	58.1	52.2	78.4	71.5	54.4	53.4	52.7
212	1/31/2024	5:00:00 AM	5:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.2	55.2	51.6	78	68.3	53.9	53.1	52.4
213	1/31/2024	5:05:00 AM	5:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.4	59.2	51.1	78.2	71	54.1	53.1	52.2
214	1/31/2024	5:10:00 AM	5:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54	58.8	52.4	78.8	75.4	55.3	53.6	52.9
215	1/31/2024	5:15:00 AM	5:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.7	57.3	52.7	79.5	70.2	56.1	54.4	53.6
216	1/31/2024	5:20:00 AM	5:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	77.3	86.6	54.2	102.1	100.6	80.3	77.8	55.7
217	1/31/2024	5:25:00 AM	5:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.7	68.3	53.6	81.5	81	57.4	55.4	54.2

218	1/31/2024	5:30:00 AM	5:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.9	61.2	54	80.7	74.2	56.9	55.7	54.5
219	1/31/2024	5:35:00 AM	5:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.4	57.8	53.8	80.2	70.4	56.2	55.4	54.5
220	1/31/2024	5:40:00 AM	5:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.7	73.6	52.9	82.5	85.1	56.2	54.9	53.9
221	1/31/2024	5:45:00 AM	5:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.7	61.5	53.9	80.5	75.8	56.8	55.4	54.5
222	1/31/2024	5:50:00 AM	5:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.7	64.8	55.8	82.5	77.9	59	57.2	56.2
223	1/31/2024	5:55:00 AM	6:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.7	70.8	54.3	81.5	86.2	57	55.9	55.2
224	1/31/2024	6:00:00 AM	6:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	64.7	82.6	54.4	89.5	98.1	57.4	56.2	55.2
225	1/31/2024	6:05:00 AM	6:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.3	62.3	54.5	82.1	84.2	58.3	57.2	56
226	1/31/2024	6:10:00 AM	6:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.2	66	55	82	88.3	58.1	56.6	55.7
227	1/31/2024	6:15:00 AM	6:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.4	63.8	54.5	81.2	83.1	57.1	56.2	55.4
228	1/31/2024	6:20:00 AM	6:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.8	63.7	53.1	80.6	81	57	55.3	54.3
229	1/31/2024	6:25:00 AM	6:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	63.6	81.1	51.6	88.4	95.6	55.8	53.9	52.6
230	1/31/2024	6:30:00 AM	6:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.9	65.8	50.2	78.7	91.7	55.6	52.3	50.9
231	1/31/2024	6:35:00 AM	6:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.8	64.9	49.3	78.6	80.2	55.7	52.1	50.8
232	1/31/2024	6:40:00 AM	6:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	64.7	82.8	49.5	89.5	100.5	55.6	51.4	50.1
233	1/31/2024	6:45:00 AM	6:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.6	56.8	49.2	76.4	75.2	52.8	51.4	49.9
234	1/31/2024	6:50:00 AM	6:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.5	56	48.9	76.3	84.2	53.3	50.9	49.9
235	1/31/2024	6:55:00 AM	7:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	59.3	48.1	76.7	70.5	53.9	50.9	49.6
236	1/31/2024	7:00:00 AM	7:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51	55.7	48.6	75.8	74.3	52.5	50.7	49.6
237	1/31/2024	7:05:00 AM	7:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.5	64	48.5	77.3	84.5	54.9	50.9	49.4
238	1/31/2024	7:10:00 AM	7:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.2	59.4	49.4	77	75.4	53.8	51.7	50.2
239	1/31/2024	7:15:00 AM	7:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.8	60.6	49.4	77.6	75.1	54.7	52.1	50.2
240	1/31/2024	7:20:00 AM	7:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.6	58.9	48.4	77.4	81.4	54.8	51.9	50.1
241	1/31/2024	7:25:00 AM	7:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	65.1	83.7	48.7	89.9	99.5	58.5	52.2	50.1
242	1/31/2024	7:30:00 AM	7:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	77.6	93.5	50.3	102.4	105.8	78.9	55.8	51.9
243	1/31/2024	7:35:00 AM	7:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.6	62.9	49.4	78.4	77.8	55.9	51.8	50.5
244	1/31/2024	7:40:00 AM	7:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.5	57.1	49.7	77.3	76.2	54.2	51.9	50.7
245	1/31/2024	7:45:00 AM	7:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.6	60.1	49.5	77.4	81.8	53.9	52	50.4
246	1/31/2024	7:50:00 AM	7:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.4	59.9	50.1	78.2	77	55.2	52.7	51.2
247	1/31/2024	7:55:00 AM	8:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.3	61.9	50	78.1	85.6	54.8	52.5	51.3
248	1/31/2024	8:00:00 AM	8:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	65.9	85.1	49.8	90.7	99.8	56.3	51.9	50.7
249	1/31/2024	8:05:00 AM	8:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.5	60.7	49.6	77.3	76.5	53.8	51.9	50.6
250	1/31/2024	8:10:00 AM	8:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	63.3	81.2	48.8	88.1	95.4	54.2	51.2	49.9
251	1/31/2024	8:15:00 AM	8:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	57.9	49.1	76.7	77.7	53.6	51.2	49.8
252	1/31/2024	8:20:00 AM	8:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	79.7	94.9	49.7	104.5	107.3	81.9	54.7	51.3
253	1/31/2024	8:25:00 AM	8:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.4	57.8	49	77.2	70.1	54	52.2	49.8
254	1/31/2024	8:30:00 AM	8:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	75.6	90.3	49.9	100.4	104.2	78.6	52.2	50.5
255	1/31/2024	8:35:00 AM	8:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	72.7	81.4	49.4	97.5	97.7	78.8	53.2	50.4
256	1/31/2024	8:40:00 AM	8:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.6	63.7	48.7	77.4	79.6	54.8	50.9	49.3
257	1/31/2024	8:45:00 AM	8:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	77.5	92.5	49.6	102.3	105.7	78.4	55.1	50.7
258	1/31/2024	8:50:00 AM	8:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	64.3	79.7	50.4	89.1	92.5	58.3	53.3	51.4
259	1/31/2024	8:55:00 AM	9:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	76.3	94.1	50.4	101.1	107.3	65.8	53.2	51.2
260	1/31/2024	9:00:00 AM	9:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	72.6	82.8	50.5	97.4	95.7	77.2	57.3	52.1
261	1/31/2024	9:05:00 AM	9:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.1	57.9	48	75.9	74.6	52.8	50.5	49.1
262	1/31/2024	9:10:00 AM	9:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	58.9	48.8	76.7	70.3	53.6	51.2	49.8
263	1/31/2024	9:15:00 AM	9:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	73.8	84.5	50.1	98.6	98	80.3	53.1	50.9
264	1/31/2024	9:20:00 AM	9:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	66.9	83.6	47.8	91.7	97.1	54.8	50.2	48.6
265	1/31/2024	9:25:00 AM	9:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.1	56.5	46.9	74.9	78.5	51.9	49.3	47.7
266	1/31/2024	9:30:00 AM	9:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	74.4	83.1	46.8	99.2	100.8	79.6	50.8	47.8
267	1/31/2024	9:35:00 AM	9:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	Yes	18.44mV/Pa	54.8	71.5	46.4	79.6	83.6	55.4	49.4	47.2
268	1/31/2024	9:40:00 AM	9:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55	72	46.8	79.8	84.4	54.9	50.2	48.2
269	1/31/2024	9:45:00 AM	9:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	75.6	86.5	46.3	100.4	100.7	79.4	62	47.7
270	1/31/2024	9:50:00 AM	9:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.7	65.4	46.8	78.5	84.3	55.8	50.7	48.4
271	1/31/2024	9:55:00 AM	10:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.7	72	47.7	80.5	86.4	55.6	51.3	49
272	1/31/2024	10:00:00 AM	10:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.8	63.5	47.1	76.6	90.6	54.5	50.3	48.4

273	1/31/2024	10:05:00 AM	10:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	63.1	47.3	76.7	79.1	54	50.4	48.4
274	1/31/2024	10:10:00 AM	10:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	Yes	18.44mV/Pa	49.6	57.1	46.2	74.4	77.8	51.8	48.9	47.2
275	1/31/2024	10:15:00 AM	10:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	49.3	57.7	46.5	74.1	78.4	51	48.5	47
276	1/31/2024	10:20:00 AM	10:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.4	62.9	47.1	77.2	80.9	54.5	50.6	48
277	1/31/2024	10:25:00 AM	10:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.1	56.5	47.5	75.9	78.4	54.3	49.8	48.2
278	1/31/2024	10:30:00 AM	10:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.8	57.5	48.4	75.6	79.9	52.4	50.1	49
279	1/31/2024	10:35:00 AM	10:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	50.8	56.2	47.6	75.6	74.1	52.1	50.6	49.2
280	1/31/2024	10:40:00 AM	10:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.2	59.2	48.5	77	79	53.6	51.9	50.3
281	1/31/2024	10:45:00 AM	10:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.9	64.1	49.3	78.7	86.1	57.3	52.1	50.7
282	1/31/2024	10:50:00 AM	10:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52	62.9	48.8	76.8	81.3	53.1	51.3	49.8
283	1/31/2024	10:55:00 AM	11:00:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52	58.2	48.9	76.8	77.2	53.8	51.5	50.2
284	1/31/2024	11:00:00 AM	11:05:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.5	59.7	49.8	78.3	77.3	55.9	52.8	50.8
285	1/31/2024	11:05:00 AM	11:10:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.3	57.6	48	77.1	74.2	54.3	51.7	49.6
286	1/31/2024	11:10:00 AM	11:15:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.4	58	48.8	77.2	82.2	54.8	51.5	49.7
287	1/31/2024	11:15:00 AM	11:20:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	65.7	80.1	48.2	90.5	93.7	68.8	52.1	49.9
288	1/31/2024	11:20:00 AM	11:25:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53	60.4	48.4	77.8	85.5	55.6	52.2	49.1
289	1/31/2024	11:25:00 AM	11:30:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	63.1	80.3	48.7	87.9	101.4	58.1	51.3	49.6
290	1/31/2024	11:30:00 AM	11:35:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.8	67.2	47.8	77.6	82.2	54.2	50.9	49.2
291	1/31/2024	11:35:00 AM	11:40:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52	64.2	48.2	76.8	75.5	53.4	50.8	49.5
292	1/31/2024	11:40:00 AM	11:45:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.1	63.8	48.6	77.9	80.9	55.1	51.8	50.1
293	1/31/2024	11:45:00 AM	11:50:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.8	61.4	53.6	80.6	79.8	56.8	55.4	54.6
294	1/31/2024	11:50:00 AM	11:55:00 AM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55	61.7	52.8	79.8	84.4	56.4	54.3	53.5
295	1/31/2024	11:55:00 AM	12:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	74.3	84.9	53.3	99.1	99.6	79.5	56.1	54.2
296	1/31/2024	12:00:00 PM	12:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	77.9	94.1	53.1	102.7	107.1	79.3	55	53.8
297	1/31/2024	12:05:00 PM	12:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55	61.6	53.4	79.8	80.8	55.7	54.7	54
298	1/31/2024	12:10:00 PM	12:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	68.5	87.8	50.8	93.3	102.8	58.1	54	52.4
299	1/31/2024	12:15:00 PM	12:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.7	65.4	50.7	79.5	82.8	56.3	53.8	51.8
300	1/31/2024	12:20:00 PM	12:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	74	84.8	51.8	98.8	99.7	79.6	54.4	52.8
301	1/31/2024	12:25:00 PM	12:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.6	58.9	51.6	79.4	74.4	56.4	54	52.6
302	1/31/2024	12:30:00 PM	12:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.1	64.2	52.1	79.9	81	56.4	54.6	53.1
303	1/31/2024	12:35:00 PM	12:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.5	61	51.4	79.3	77.9	55.8	54.3	52.7
304	1/31/2024	12:40:00 PM	12:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.2	63.3	51.3	80	81.1	57.3	54.7	53
305	1/31/2024	12:45:00 PM	12:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.5	65.3	51.5	80.3	76.7	57.3	54.4	52.6
306	1/31/2024	12:50:00 PM	12:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	59.4	71.7	52	84.2	87.1	61.7	55.6	53.3
307	1/31/2024	12:55:00 PM	1:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.2	67.1	51.1	81	85.8	58	55.6	53
308	1/31/2024	1:00:00 PM	1:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55	66.7	50.8	79.8	83.4	57	53.7	51.8
309	1/31/2024	1:05:00 PM	1:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	62	78.9	51.9	86.8	90.2	63	55.2	53.1
310	1/31/2024	1:10:00 PM	1:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	76.5	84.9	52.7	101.3	100.8	80.5	59.1	54.2
311	1/31/2024	1:15:00 PM	1:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.5	61.3	52.9	81.3	78.3	58.1	56.1	54.4
312	1/31/2024	1:20:00 PM	1:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.5	60.5	53.4	81.3	84.4	58.1	56.1	54.8
313	1/31/2024	1:25:00 PM	1:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.9	65.1	53.5	81.7	82.1	58.8	56.1	54.8
314	1/31/2024	1:30:00 PM	1:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	78.6	89.6	53.1	103.4	103.2	80.9	78.4	55.4
315	1/31/2024	1:35:00 PM	1:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	69.9	80.7	53.9	94.7	97	77.5	59.6	56.5
316	1/31/2024	1:40:00 PM	1:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.3	64.8	53	82.1	83.2	60.3	55.6	54
317	1/31/2024	1:45:00 PM	1:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.2	60.9	53.2	80	79.3	56.3	54.9	54
318	1/31/2024	1:50:00 PM	1:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.9	63.6	51.8	79.7	79.1	56.5	54.4	53.2
319	1/31/2024	1:55:00 PM	2:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.1	64.4	52.8	80.9	82.2	57.7	55.5	53.9
320	1/31/2024	2:00:00 PM	2:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.1	65.3	52.5	80.9	83.2	57.7	55	53.9
321	1/31/2024	2:05:00 PM	2:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	77.4	93.6	51.1	102.2	107.2	78.3	58.9	53.2
322	1/31/2024	2:10:00 PM	2:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.2	60.8	52.2	80	79.7	57.1	54.7	53
323	1/31/2024	2:15:00 PM	2:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	76.6	88.4	53.5	101.4	101.3	79.1	75.5	55.3
324	1/31/2024	2:20:00 PM	2:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.7	62	51.6	79.5	97.2	56	54.3	53.3
325	1/31/2024	2:25:00 PM	2:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.7	75.3	52.6	82.5	93.3	58.7	55.1	53.3
326	1/31/2024	2:30:00 PM	2:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.4	69.4	52.3	80.2	85.3	56.2	54.8	53.7
327	1/31/2024	2:35:00 PM	2:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.7	58.2	51.7	79.5	77.6	56	54.5	52.7

328	1/31/2024	2:40:00 PM	2:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.2	64	51	80	80.6	57.2	54.1	52.2
329	1/31/2024	2:45:00 PM	2:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.8	69.2	51.6	81.6	83.3	57.8	54.7	53.3
330	1/31/2024	2:50:00 PM	2:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.7	60.5	52	79.5	75.5	56	54.2	53.1
331	1/31/2024	2:55:00 PM	3:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	75.4	85.2	53.5	100.2	99.7	80	57.1	54.4
332	1/31/2024	3:00:00 PM	3:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.1	66.7	53.5	80.9	84.8	57.2	55.4	54.3
333	1/31/2024	3:05:00 PM	3:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.9	62.9	51.3	79.7	84.1	56.7	54.2	52.5
334	1/31/2024	3:10:00 PM	3:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.7	61.4	51.5	79.5	84.4	56.5	54.1	52.6
335	1/31/2024	3:15:00 PM	3:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	58.9	69.3	52.3	83.7	87	61.9	55.3	53.4
336	1/31/2024	3:20:00 PM	3:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	60.1	73.1	52.3	84.9	90.9	63.8	55.7	53.9
337	1/31/2024	3:25:00 PM	3:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.9	62.4	51.7	80.7	88.5	58.1	55.2	53.5
338	1/31/2024	3:30:00 PM	3:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.7	59.4	52.3	79.5	74.2	56.2	54.2	53
339	1/31/2024	3:35:00 PM	3:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57	68.9	52.3	81.8	81.8	58.3	56.3	54.5
340	1/31/2024	3:40:00 PM	3:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.1	62.3	52.8	80.9	74.8	58	55.8	54
341	1/31/2024	3:45:00 PM	3:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56	65.8	51.8	80.8	82.7	58.5	54.6	53.1
342	1/31/2024	3:50:00 PM	3:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	70.3	84.6	51.8	95.1	100.5	76.3	54.6	53
343	1/31/2024	3:55:00 PM	4:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	73.5	82.2	52.9	98.3	102.9	78.8	60.2	54
344	1/31/2024	4:00:00 PM	4:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	56.9	70.3	50.8	81.7	85.6	59.4	54.1	52.4
345	1/31/2024	4:05:00 PM	4:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.4	62.6	49.5	78.2	87.8	55.1	52.8	51.4
346	1/31/2024	4:10:00 PM	4:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.4	58	50.5	78.2	77.2	55	53.1	51.3
347	1/31/2024	4:15:00 PM	4:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.5	60.6	49.6	78.3	75.1	55.1	53.2	51.5
348	1/31/2024	4:20:00 PM	4:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	63.9	82	50.7	88.7	98.5	56.7	53.6	52
349	1/31/2024	4:25:00 PM	4:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	65.6	84.9	50.8	90.4	98.9	58.9	54.3	51.8
350	1/31/2024	4:30:00 PM	4:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.5	60.7	50.6	78.3	81.9	55	53.1	51.3
351	1/31/2024	4:35:00 PM	4:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	70.7	86.7	49.7	95.5	101.3	68.4	54.7	51.5
352	1/31/2024	4:40:00 PM	4:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.3	60.3	49.6	78.1	85.9	55	52.9	51
353	1/31/2024	4:45:00 PM	4:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.6	63	49.6	78.4	80.7	54.9	52.8	50.9
354	1/31/2024	4:50:00 PM	4:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.3	66.2	50.3	79.1	83.9	55.7	53.3	51.8
355	1/31/2024	4:55:00 PM	5:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	67.2	84.8	50.2	92	101.3	58.1	53.1	51.3
356	1/31/2024	5:00:00 PM	5:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	65.8	84.4	50.5	90.6	100.4	54.9	52.8	51.6
357	1/31/2024	5:05:00 PM	5:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	57.9	73	50.1	82.7	87.1	56.4	53.4	51.6
358	1/31/2024	5:10:00 PM	5:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	72.2	83.9	50.5	97	98.7	77.9	54.7	51.9
359	1/31/2024	5:15:00 PM	5:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.2	63.8	49.9	79	77.2	56.3	53.1	51.3
360	1/31/2024	5:20:00 PM	5:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.3	58.6	50.4	78.1	75.7	55.1	52.8	51.5
361	1/31/2024	5:25:00 PM	5:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.3	65.7	49.1	80.1	79.7	57.3	52.3	50.3
362	1/31/2024	5:30:00 PM	5:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	61	73.5	49.8	85.8	89.3	66.5	53.1	51.1
363	1/31/2024	5:35:00 PM	5:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	55.4	69.9	49.9	80.2	80.4	57.3	52.6	50.7
364	1/31/2024	5:40:00 PM	5:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	65.8	84.7	49	90.6	100.4	59.2	53.1	50.3
365	1/31/2024	5:45:00 PM	5:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.3	64.4	49.9	78.1	75.9	54.6	52.3	50.8
366	1/31/2024	5:50:00 PM	5:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.9	59	47.9	77.7	71.3	56.1	51.5	49.5
367	1/31/2024	5:55:00 PM	6:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.7	61.3	48	77.5	72.3	54.5	51.8	49.8
368	1/31/2024	6:00:00 PM	6:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.7	63.1	48.6	77.5	74.1	53.9	50.9	49.4
369	1/31/2024	6:05:00 PM	6:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	74.7	84.5	50.3	99.5	98.1	77.8	74	53.4
370	1/31/2024	6:10:00 PM	6:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.1	59.5	49.9	77.9	72.2	54.3	52.7	51.2
371	1/31/2024	6:15:00 PM	6:20:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.1	64.8	48.7	77.9	77.3	54.3	52.2	50.2
372	1/31/2024	6:20:00 PM	6:25:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	64.4	81.6	49.7	89.2	98.5	58.6	52.9	50.8
373	1/31/2024	6:25:00 PM	6:30:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	60.5	75.7	50.5	85.3	87.8	60.9	53.2	51.2
374	1/31/2024	6:30:00 PM	6:35:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.1	56.4	50.4	77.9	70.9	54.2	52.9	51.7
375	1/31/2024	6:35:00 PM	6:40:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.1	56	50.5	77.9	72.2	54.6	52.8	51.6
376	1/31/2024	6:40:00 PM	6:45:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.5	62.3	50.2	78.3	87	54.9	53.3	51.8
377	1/31/2024	6:45:00 PM	6:50:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53	57.1	49.1	77.8	78.7	54.5	52.8	50.7
378	1/31/2024	6:50:00 PM	6:55:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	67.6	85.6	48.5	92.4	100.2	54.8	51	49.6
379	1/31/2024	6:55:00 PM	7:00:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	56.1	49.6	76.7	70.3	53.3	51.5	50.3
380	1/31/2024	7:00:00 PM	7:05:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	75.3	87.8	49.6	100.1	106.5	78.5	74.4	51.2
381	1/31/2024	7:05:00 PM	7:10:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.9	59.3	48.7	76.7	70.6	53.5	51.2	49.6
382	1/31/2024	7:10:00 PM	7:15:00 PM	0:05:00	Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	54.3	66.1	48.4	79.1	77.6	57.5	51	49.2

383	1/31/2024	7:15:00 PM	7:20:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	75.5	85.9	48.3	100.3	100.1	80.7	52.4	49.1
384	1/31/2024	7:20:00 PM	7:25:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.6	65.6	49.6	77.4	78	53.9	51.6	50.6
385	1/31/2024	7:25:00 PM	7:30:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	51.8	55.8	49.3	76.6	69.9	53	51.6	50.3
386	1/31/2024	7:30:00 PM	7:35:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	62.8	80.9	49.4	87.6	97.3	52.8	51.1	49.9
387	1/31/2024	7:35:00 PM	7:40:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.5	55.4	50.5	77.3	72.9	53.5	52.2	51.3
388	1/31/2024	7:40:00 PM	7:45:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	79.2	93.8	50.9	104	107.7	80.9	53.9	51.6
389	1/31/2024	7:45:00 PM	7:50:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	66.1	82.8	50	90.9	96.8	54.2	51.6	50.6
390	1/31/2024	7:50:00 PM	7:55:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	52.9	58.3	51.3	77.7	70.8	53.9	52.7	51.7
391	1/31/2024	7:55:00 PM	8:00:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	79.2	90.9	52.1	104	103.1	81.4	77.8	53.9
392	1/31/2024	8:00:00 PM	8:05:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	53.2	56.6	51.2	78	69.9	54.4	53	52
393	1/31/2024	8:05:00 PM	8:10:00 PM	0:05:00 Auto	Low	Mic	Slow	dBA	No	No	18.44mV/Pa	79.2	102.2	51.1	104	129.3	77.4	53.1	51.9

**Attachment 15. Noise Waiver**



DYLAN WRIGHT  
DIRECTOR  
OC COMMUNITY RESOURCES

CYMANTHA ATKINSON  
ASSISTANT DIRECTOR  
OC COMMUNITY RESOURCES

JOANNE VEEDOR  
DIRECTOR  
ADMINISTRATIVE SERVICES

MONICA SCHMIDT  
DIRECTOR  
OC ANIMAL CARE

JULIA BIDWELL  
DIRECTOR  
OC HOUSING & COMMUNITY  
DEVELOPMENT

RENEE RAMIREZ  
DIRECTOR  
OC COMMUNITY SERVICES

PAMELA PASSOW  
DIRECTOR  
OC PARKS

JULIE QUILLMAN  
COUNTY LIBRARIAN  
OC PUBLIC LIBRARIES

# OC Community Resources

April 30, 2024

Julia Bidwell, Director  
OC Housing & Community Development  
1501 E. St. Andrew Place 1<sup>st</sup> Floor  
Santa Ana, CA 92705

RE: Environmental Impact Waiver for Placentia Baker Street

Dear Julia,

During the process of Environmental Assessment for the Placentia Baker Street Project staff in consultation with our Environmental Consultant, have determined sections of the proposed development site have noise levels that exceed HUD's Unacceptable noise zone. Noise in the unacceptable noise zone requires the completion of an Environmental Impact Statement (EIS) level of review unless noise is the only environmental issue and no outdoor noise sensitive activity will take place on the site. In such a case, a Waiver can be provided by you the Certifying Officer.

For the Placentia Baker Street project, noise is the only environmental issue and no outdoor noise sensitive uses will take place on the site. As a result we have determined the proposed project meets the criteria for a Waiver per [24 CFR 51.104 -\(b\)\(2\)](#), and request your approval of a Waiver to complete an Environmental Assessment instead of the EIS. Please indicate your approval by signing the attached Waiver authorization.

Sincerely,

5/7/2024

Suzanne Harder  
Community Development  
Compliance and Environmental Coordinator



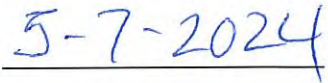
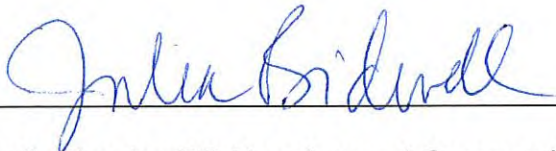
OC Housing  
& Community  
Development

1501 E. ST. ANDREW PLACE, 1<sup>ST</sup> FLOOR  
SANTA ANA, CA 92705  
PHONE: 714.480.6534  
FAX: 714.480.2978



Waiver Authorization  
24 CFR 51.104.(b)(2)

I, Julia Bidwell, Director of OC Housing and Community Development, in my capacity as Certifying Officer for the County of Orange Housing and Community Development, certify the Placentia Baker Street project meets the criteria for a Waiver, and by my signature waive the requirement to complete an Environmental Impact Statement per 24 CFR 51.104 (b)(2) and allow the completion of an Environmental Assessment instead.



Julia Bidwell, Director OC Housing and Community Development

Date

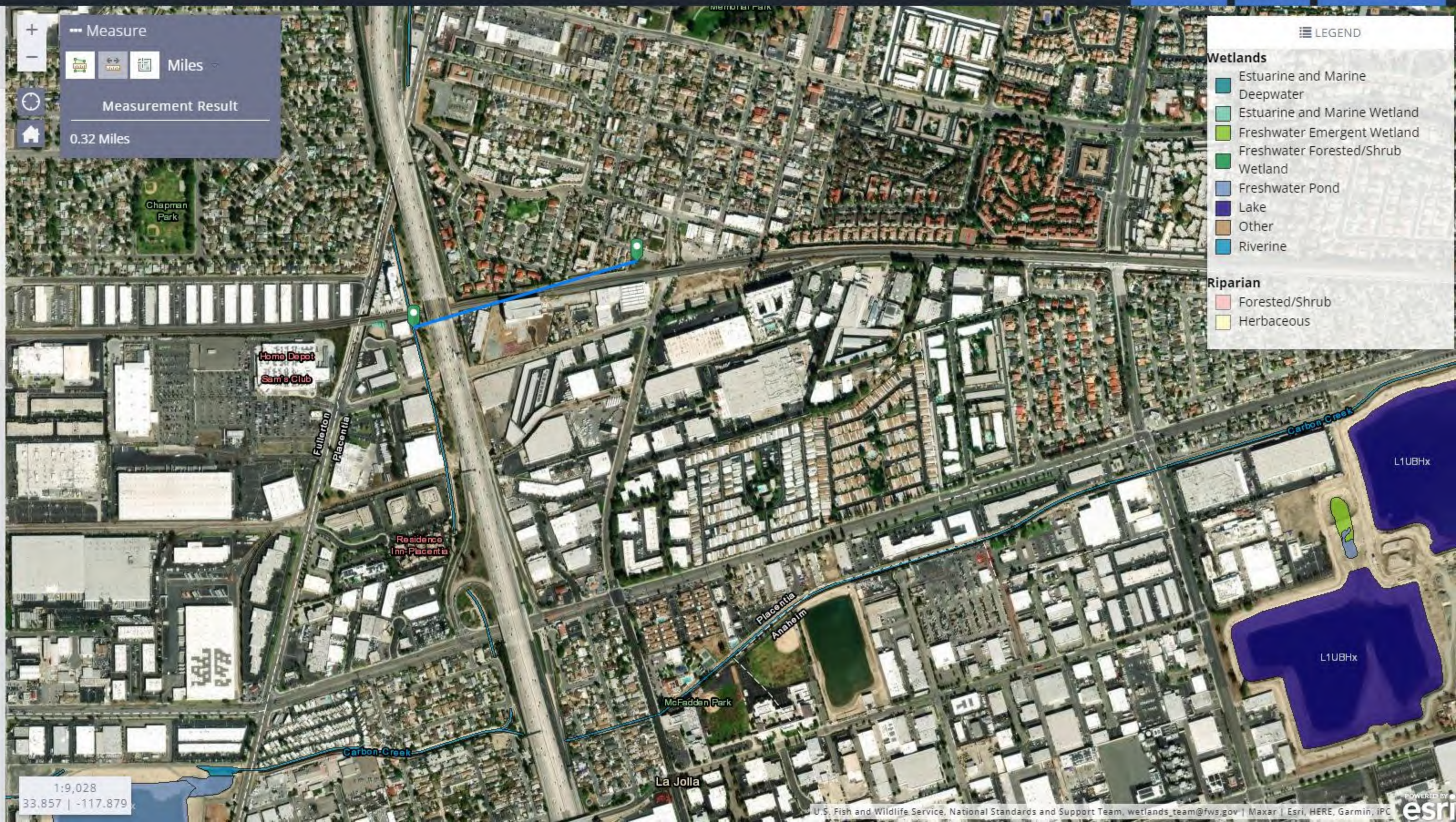
**Attachment 16. National Wetlands Inventory Map**



BASEMAPS >

MAP LAYERS >

- ☒ Wetlands
- ☒ Riparian
- ☐ Riparian Mapping Areas
- ☒ Data Source
  - ☐ Source Type
  - ☐ Image Scale
  - ☐ Image Year
- ☐ Areas of Interest
- ☐ FWS Managed Lands
- ☐ Historic Wetland Data



**Measure**

   Miles

**Measurement Result**

0.32 Miles

LEGEND

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

Riparian

- Forested/Shrub
- Herbaceous

1:9,028  
33.857 | -117.879



**Attachment 17. Sole Source Aquifer Map Screenshot**

Click one of the following buttons to start measuring:



Mode

Auto

### New Measurement

- ☒ EPA Facilities
- ☒ Water Monitoring Stations
- ☒ Boundaries
- ☒ Non-attainment Areas
- ☒ EJScreen Indexes (2023)
- ☐ Water
  - ☐ Impaired Water Points
  - ☐ Impaired Streams
  - ☐ Impaired Waterbodies
  - ☐ Catchments (ATTAINS)
  - ☐ Streams
  - ☐ Water Bodies
  - ☒ Sole Source Aquifers
- ☐ Watersheds (HUC12)
- ☐ Watersheds (HUC8)
- ☐ Wild and Scenic Rivers
- ☒ Transportation
- ☒ Places
- ☒ Critical Habitat
- ☒ NWI Wetlands
- ☒ FEMA Flood
- ☒ Land Cover


20 mi


**Attachment 18. Wild and Scenic Rivers Map**



Measure

Click one of the following buttons to start measuring:





Unit

Mode

Miles

Auto

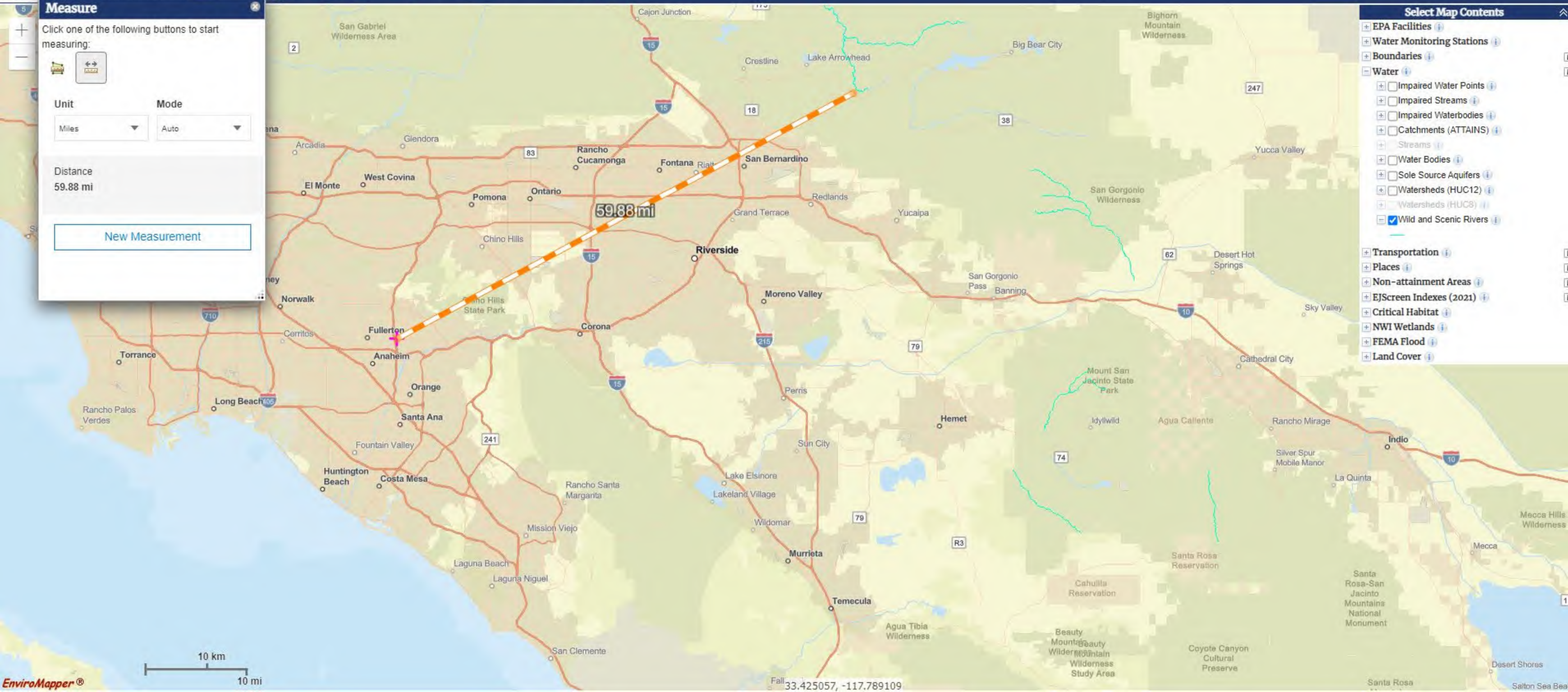
Distance

59.88 mi

New Measurement

**Select Map Contents**

- ☒ EPA Facilities ⓘ
- ☒ Water Monitoring Stations ⓘ
- ☒ Boundaries ⓘ
- ☐ Water ⓘ
  - ☐ Impaired Water Points ⓘ
  - ☐ Impaired Streams ⓘ
  - ☐ Impaired Waterbodies ⓘ
  - ☐ Catchments (ATAINS) ⓘ
  - ☐ Streams ⓘ
  - ☐ Water Bodies ⓘ
  - ☐ Sole Source Aquifers ⓘ
  - ☐ Watersheds (HUC12) ⓘ
  - ☐ Watersheds (HUC8) ⓘ
  - ☒ Wild and Scenic Rivers ⓘ
- ☒ Transportation ⓘ
- ☒ Places ⓘ
- ☒ Non-attainment Areas ⓘ
- ☒ EJScreen Indexes (2021) ⓘ
- ☒ Critical Habitat ⓘ
- ☒ NWI Wetlands ⓘ
- ☒ FEMA Flood ⓘ
- ☒ Land Cover ⓘ



## **Attachment 19. EJScreen Community Report**





# EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

## Placentia, CA

0.125 miles Ring Centered at 33.868670,-117.874439

Population: 754

Area in square miles: 0.05

A3 Landscape



January 15, 2024

Baker Street

1:4,514

ESRI, HERE, DeLorme, JGC, Mapbox

### COMMUNITY INFORMATION



Low income:  
38 percent



People of color:  
97 percent



Less than high  
school education:  
47 percent



Limited English  
households:  
19 percent



Unemployment:  
3 percent



Persons with  
disabilities:  
5 percent



Male:  
55 percent



Female:  
45 percent

81 years

Average life  
expectancy

\$23,944

Per capita  
income



Number of  
households:  
119

Owner  
occupied:  
20 percent

### BREAKDOWN BY RACE



White: 3%



Black: 0%



American Indian: 0%



Asian: 0%



Hawaiian/Pacific  
Islander: 0%



Other race: 0%

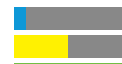


Two or more  
races: 0%



Hispanic: 96%

### BREAKDOWN BY AGE



From Ages 1 to 4

7%



From Ages 1 to 18

31%



From Ages 18 and up

69%



From Ages 65 and up

4%

### LIMITED ENGLISH SPEAKING BREAKDOWN



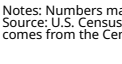
Speak Spanish

100%



Speak Other Indo-European Languages

0%



Speak Asian-Pacific Island Languages

0%



Speak Other Languages

0%

### LANGUAGES SPOKEN AT HOME

LANGUAGE	PERCENT
English	40%
Spanish	55%
Other Indo-European	2%
Chinese (including Mandarin, Cantonese)	1%
Other Asian and Pacific Island	1%
Total Non-English	60%

Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

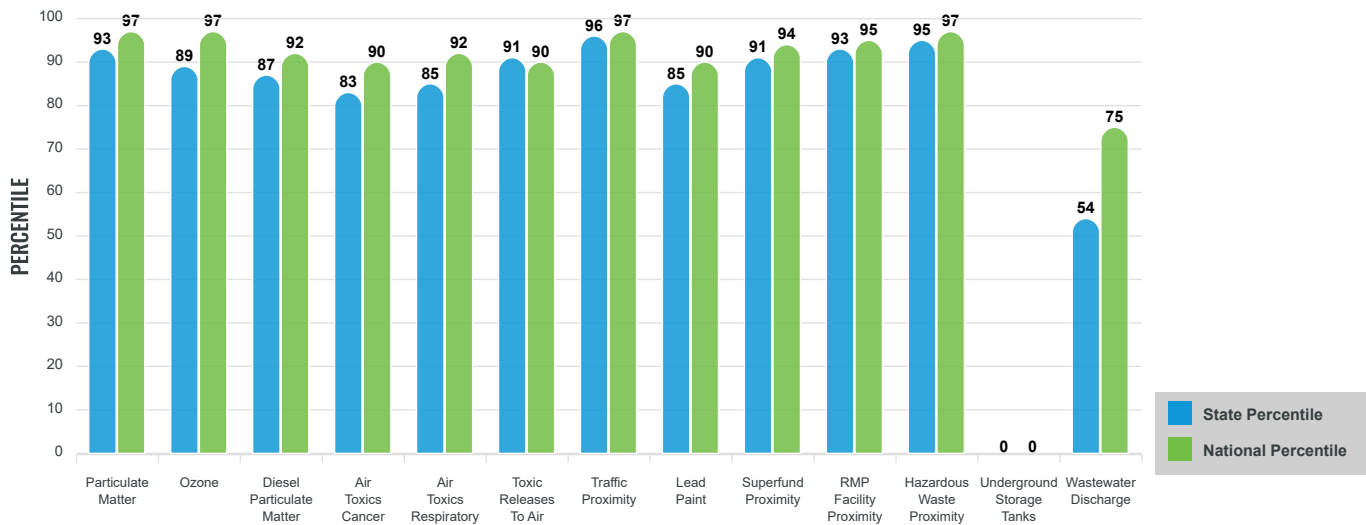
## Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen EJ indexes and supplemental indexes in EJScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the EJ and supplemental indexes, please visit the [EJScreen website](#).

### EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color populations with a single environmental indicator.

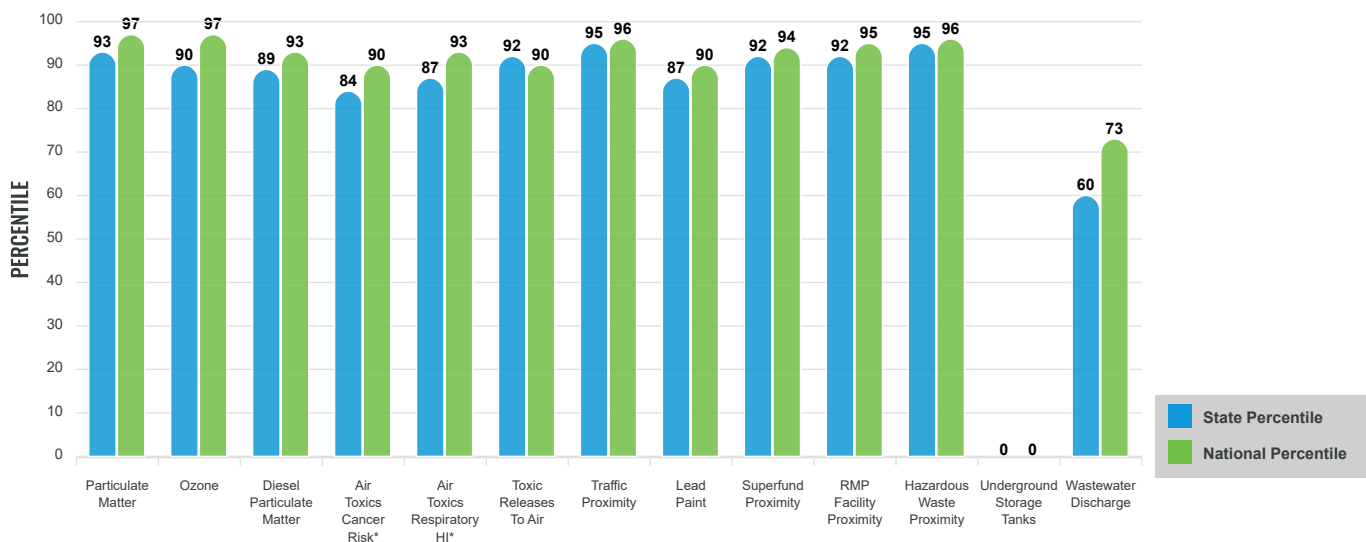
#### EJ INDEXES FOR THE SELECTED LOCATION



### SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.

#### SUPPLEMENTAL INDEXES FOR THE SELECTED LOCATION



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for 0.125 miles Ring Centered at 33.868670,-117.874439

# EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA
<b>POLLUTION AND SOURCES</b>					
Particulate Matter ( $\mu\text{g}/\text{m}^3$ )	11.1	8.65	91	8.08	99
Ozone (ppb)	73.3	65.9	76	61.6	97
Diesel Particulate Matter ( $\mu\text{g}/\text{m}^3$ )	0.375	0.26	77	0.261	80
Air Toxics Cancer Risk* (lifetime risk per million)	30	27	42	25	52
Air Toxics Respiratory HI*	0.4	0.34	58	0.31	70
Toxic Releases to Air	1,600	780	84	4,600	68
Traffic Proximity (daily traffic count/distance to road)	2,200	510	94	210	98
Lead Paint (% Pre-1960 Housing)	0.47	0.31	69	0.3	71
Superfund Proximity (site count/km distance)	0.19	0.17	80	0.13	84
RMP Facility Proximity (facility count/km distance)	1.4	0.57	89	0.43	92
Hazardous Waste Proximity (facility count/km distance)	16	5.9	94	1.9	98
Underground Storage Tanks (count/km <sup>2</sup> )	0	1.5	0	3.9	0
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.00035	4	30	22	40
<b>SOCIOECONOMIC INDICATORS</b>					
Demographic Index	67%	45%	84	35%	88
Supplemental Demographic Index	25%	15%	84	14%	88
People of Color	97%	61%	91	39%	94
Low Income	38%	28%	70	31%	66
Unemployment Rate	3%	7%	31	6%	42
Limited English Speaking Households	18%	9%	84	5%	92
Less Than High School Education	47%	16%	94	12%	98
Under Age 5	7%	6%	64	6%	65
Over Age 64	4%	16%	7	17%	7
Low Life Expectancy	17%	18%	47	20%	29

\*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: <https://www.epa.gov/haps/air-toxics-data-update>.

## Sites reporting to EPA within defined area:

Superfund .....	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities .....	0
Water Dischargers .....	0
Air Pollution .....	0
Brownfields .....	0
Toxic Release Inventory .....	0

## Other community features within defined area:

Schools .....	0
Hospitals .....	0
Places of Worship .....	0

## Other environmental data:

Air Non-attainment .....	Yes
Impaired Waters .....	No

Selected location contains American Indian Reservation Lands* .....	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community .....	No
Selected location contains an EPA IRA disadvantaged community .....	Yes

Report for 0.125 miles Ring Centered at 33.868670,-117.874439

## EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Low Life Expectancy	17%	18%	47	20%	29
Heart Disease	3.4	5.2	8	6.1	6
Asthma	10	9.5	65	10	55
Cancer	3.1	5.3	5	6.1	3
Persons with Disabilities	4%	10.9%	3	13.4%	2

CLIMATE INDICATORS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Flood Risk	29%	13%	87	12%	91
Wildfire Risk	0%	30%	0	14%	0

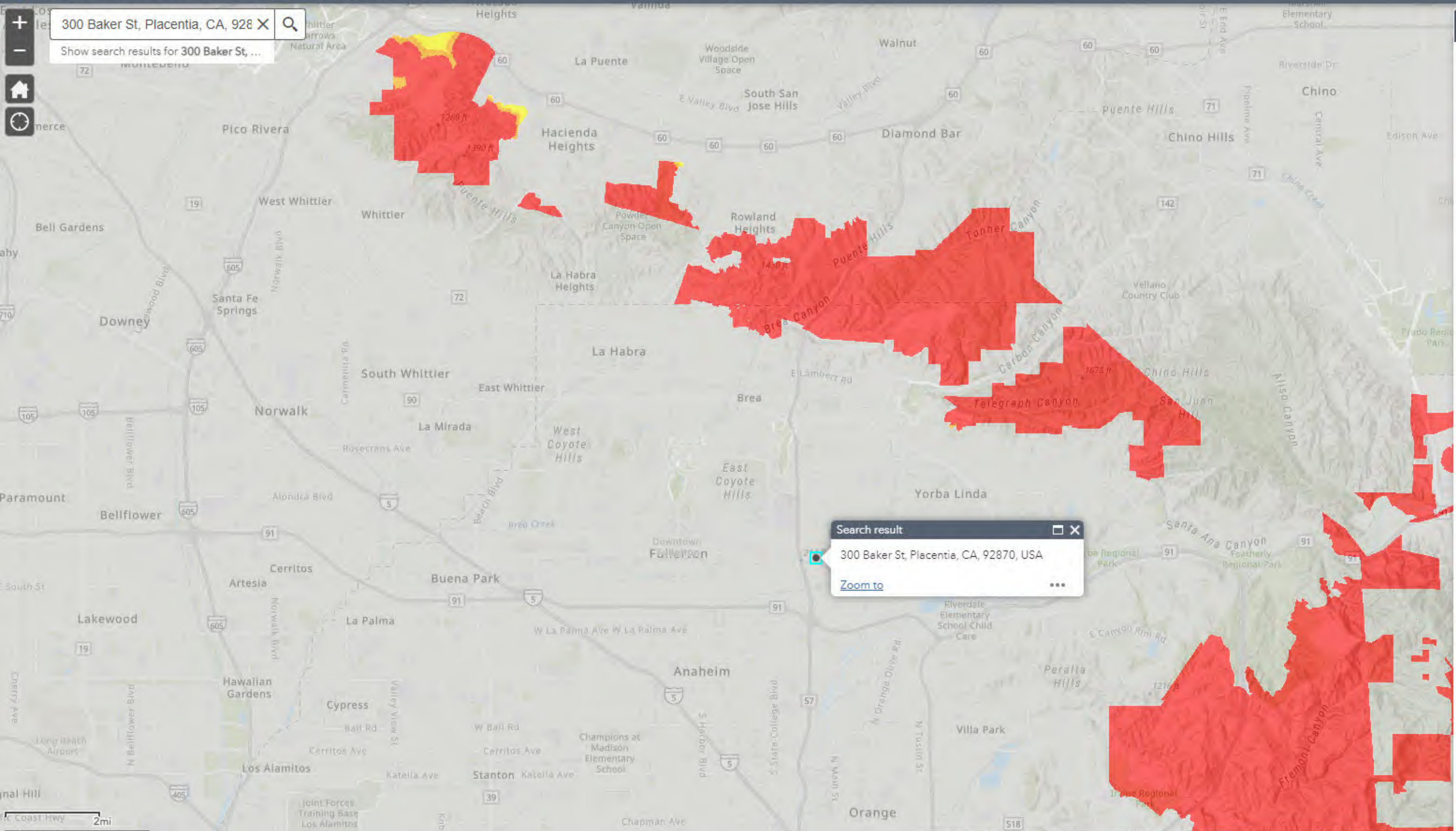
CRITICAL SERVICE GAPS					
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE
Broadband Internet	5%	10%	39	14%	27
Lack of Health Insurance	21%	7%	97	9%	93
Housing Burden	Yes	N/A	N/A	N/A	N/A
Transportation Access	No	N/A	N/A	N/A	N/A
Food Desert	No	N/A	N/A	N/A	N/A

Footnotes

Report for 0.125 miles Ring Centered at 33.868670,-117.874439

**Attachment 20. CalFIRE Hazard Severity Zone Map Screenshot**





Legend

Fire Hazard Severity Zones in State Responsibility Area - September 29, 2023

Moderate

High

Very High

Outside State Responsibility Area

Esri, NASA, NGA, USGS | County of Los Angeles, California State Parks, Esri, TomTom, Garmin, Saf

## **Attachment 21. Climate Mapping for Resilience and Adaptation**



 **Climate Projections**

### Extreme Heat

## Drought

## Wildfire

## Flooding

## Coastal Inundation

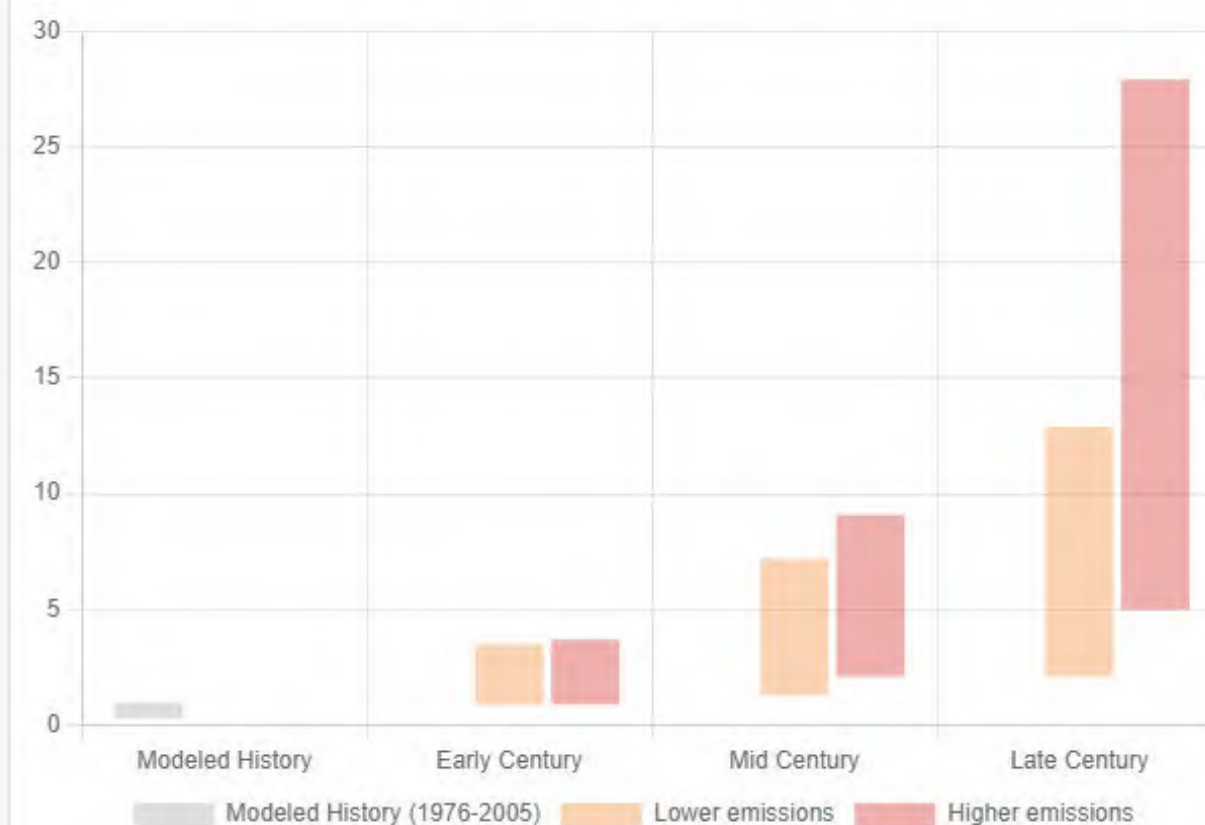
Lower emissions

Higher emissions

### Indicator Details

### Chart

Table





Tract within Orange County, CA

Select a geography:

Census Tract

County

Tribal Area

Map Exploration

Climate Projections

Not a Disadvantaged Community

Building Code: Resistant

Tribal Area

City of Fullerton, County of Los Angeles, California State Parks, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS | Esri, NASA, NGA, USGS, FEMA

Powered by Esri

- Climate Hazards
- Extreme Heat

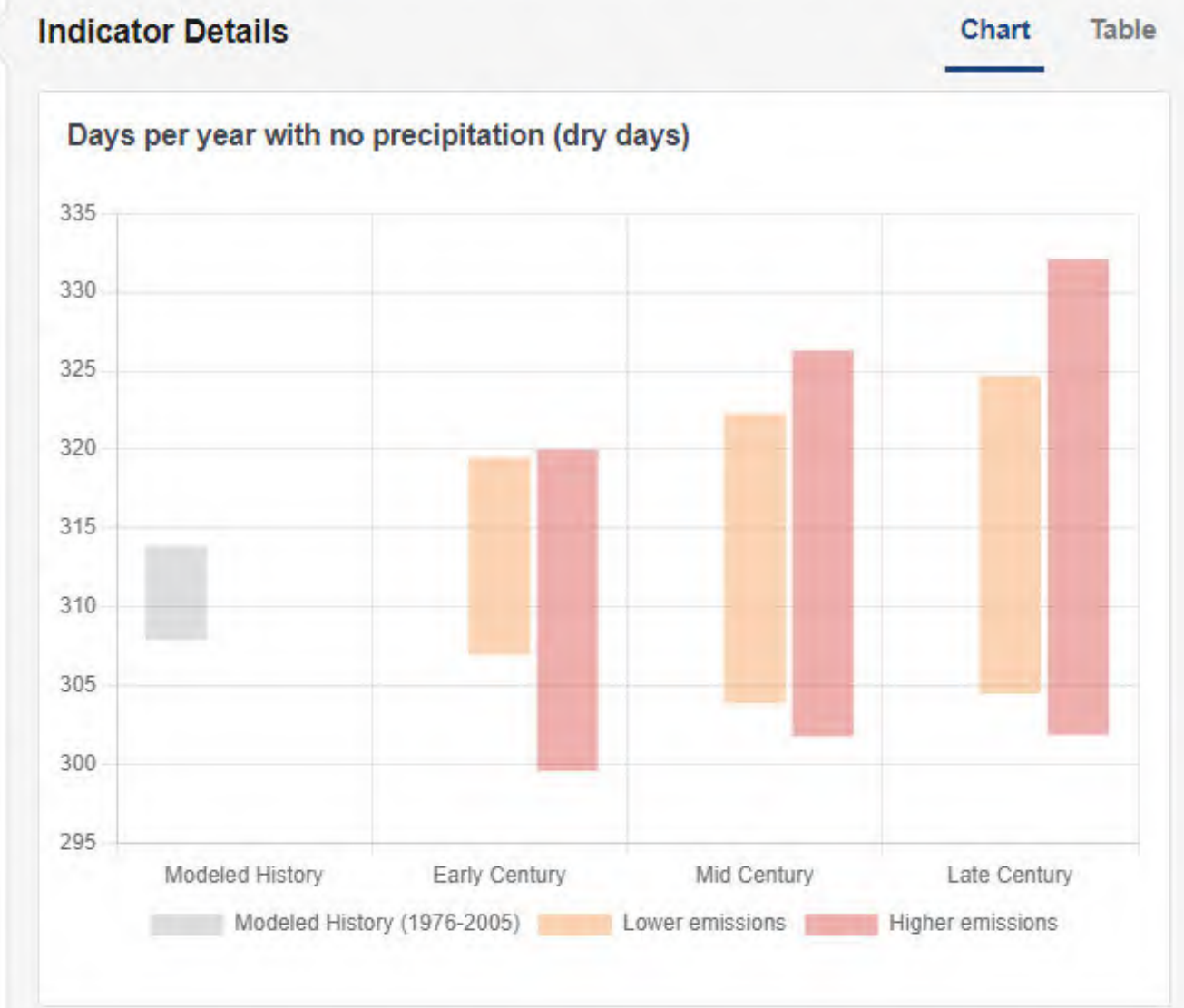
Drought

Wildfire

Flooding

Coastal Inundation

Climate Projections for Early Century (2015–2044)		
	Lower emissions	Higher emissions
Average annual total precipitation	13.9 Inches - 0.1 since 1976-2005	14.3 Inches + 0.3 since 1976-2005
Days per year with precipitation (wet days)	52.1 Days - 1.9 since 1976-2005	52.0 Days - 1.9 since 1976-2005
Days per year with no precipitation (dry days)	313.1 Days + 1.9 since 1976-2005	313.1 Days + 1.9 since 1976-2005
Maximum number of consecutive dry days	123.0 Days + 2.0 since 1976-2005	123.9 Days + 2.9 since 1976-2005
Annual days with maximum temperature > 90°F	22.5 Days + 9.3 since 1976-2005	23.7 Days + 10.5 since 1976-2005
Annual days with maximum temperature > 100°F	1.7 Days + 1.0 since 1976-2005	1.8 Days + 1.2 since 1976-2005



## **Attachment 22. HUD Guidance on Climate Change**

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-8000



OFFICE OF HOUSING

ADMINISTRATIVE MEMORANDUM  
OFFICE OF MULTIFAMILY HOUSING PRODUCTION

MEMORANDUM FOR: All Multifamily Mortgagees  
All Multifamily Regional and Satellite Office Directors & Production Staff

FROM: Willie Fobbs, III, Director, Office of Multifamily Production

SUBJECT: Guidance on Considering Climate Change in Environmental Assessment Factors for Multifamily Projects

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**A. PURPOSE & BACKGROUND**

Considering impacts from Climate Change in federal decision-making is a key focus of the Biden administration and supported by the Office of Multifamily Housing. HUD's Office of Environment and Energy recently issued an updated [Environmental Assessment eGuide](#) that includes new Environmental Assessment (EA) factors related to Climate Change, along with an associated [webinar](#) and an [FAQ document](#). The eGuide is written generally for all HUD programs that trigger an EA level review. This guidance applies specifically to Multifamily Housing and lays out a path for implementation.

**B. APPLICABILITY AND TIMING**

The Environmental Assessment eGuide applies to all new construction projects and to substantial rehabilitation projects that require an EA level review. The eGuide does not apply to refinance or rehabilitation actions that are Categorical Excluded from NEPA.

Applications already submitted (including those in the queue) do not need to update the environmental review to include the new EA factors. In addition, this memo introduces a transition period for new applications to include climate change EA factors.



After December 1, 2022, EA level applications must discuss reasonably foreseeable climate impacts over the life of the mortgage and address mitigation measures that would be prudent to implement at the construction stage.

## **C. PROCESS**

After December 1, 2022, Multifamily Housing will require consideration of reasonably foreseeable climate impacts as part of a complete Environmental Assessment level review along with the other EA factors. Just as with the other EA factors, the analysis and level of detail will vary from project to project. For example, a project designed to house families will focus on access to schools, parks and recreation while a project designed to house seniors would instead focus on healthcare and social services. Similarly, impacts from climate change will vary significantly based on project location.

### **i. Considering Climate Risks**

- All applicants must analyze likely current hazard risk by entering property addresses into FEMA's [National Risk Index](#) (NRI), identify which hazards are "relatively high" or "very high" for their census tract, and generate and submit the NRI report for the census tract. Applicants may explain why census tract hazards do not apply to their specific site (e.g., a site located on top of a hill may not face riverine flooding risk). Some risks displayed in this tool are not related to climate (e.g., seismic activity) and can be addressed in other EA factors.
- Applicants must also consider future climate risk over the term of the mortgage. Applicants may use climate projection tools such as [Climate Explorer](#), [Risk Factor](#), [NOAA Sea Level Rise Viewer](#), and [Climate Central Coastal Risk Screening Tool](#) (by year and/or water level). HUD's EA Factor eGuide training recommends the Climate Explorer tool and Housing would accept a summary of the top climate concerns from the site's "Take Action" Tab. It may be necessary to supplement Climate Explorer with a source such as Risk Factor to capture projected flood or wildfire risks. HUD would also accept equivalent reports from the other sources.
- For both NRI and the climate projection reports, applicants should provide a narrative description detailing how the scope of work addresses or mitigates against any climate hazard risks identified in the reports.

### **ii. Mitigation for Climate Risks**

If reasonably foreseeable climate risks are present, applicants must consider potential mitigation measures that would be prudent to implement at the construction stage.

For example:

- If excessive heat is an issue, consider using multi-pane and/or low-e coated windows, window shading, cool roofs, or enhanced roof and wall insulation. Consider adding air conditioning to areas of the country that haven't historically needed them (like the Pacific Northwest.) Consider adding solar power or back-up generators for power grid overloads.
- If harsh winters are an issue, consider using enhanced insulation and multi-pane windows. Consider areas of the country that haven't historically had harsh winters (like Texas and the Southeast.) Consider adding solar power or back-up generators for power grid overloads.
- If the project is in an area at risk from wildfires, consider incorporating noncombustible or fire-resistant materials, fire-safe landscaping and defensible spaces around buildings
- If air quality from wildfires or other sources is an issue, address indoor air quality with filters and purifiers.
- If flooding is an issue, follow MAP Guide requirements regarding elevation, resident safety and notification plus consider additional measures to reduce floodwater such as permeable pavement, green roof, bioswales, dry wells.
- Consider evacuation and safety plans for storm, fire or flood risks.

iii. Energy Efficiency

The EA factors element also asks HUD to consider the project's contributions to climate change via building materials and energy use. This would be a place to note if a project is a transit oriented development, participating in Green MIP, or offering amenities such as bike storage or electric vehicle charging stations. At this time, Multifamily programs do not have specific Greenhouse Gas Emissions benchmarks to meet as part of the environmental assessment.

**D. NEXT STEPS and CONTACT**

HUD has made updating the environmental regulations at 24 CFR Part 50 and Part 58 to include strategies to mitigate climate related hazards and health impacts a priority under its [Climate Action Plan](#). This update will be more comprehensive in scope than the Environmental Assessment Factors eGuide. HUD will solicit feedback from our partners as part of this rulemaking.

Housing staff will continue to meet with lender environmental working groups on this topic to discuss implementation.

For any questions concerning this memorandum, please contact Sara Jensen, Housing Program Environmental Clearance Officer at 206-220-5226 or [sara.jensen@hud.gov](mailto:sara.jensen@hud.gov).

## **ENVIRONMENTAL REVIEW RECORDS (ERRS)**

## **ERR No. 1. Airport Hazards**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## **Airport Hazards (CEST and EA) – PARTNER**

<https://www.hudexchange.info/environmental-review/airport-hazards>

- 1. To ensure compatible land use development, you must determine your site’s proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?**

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within the applicable distances to a military or civilian airport.*

☐ Yes → *Continue to Question 2.*

- 2. Is your project located within a Runway Potential Zone/Clear Zone (RPZ/CZ) or Accident Potential Zone (APZ)?**

☐ Yes, project is in an APZ → *Continue to Question 3.*

☐ Yes, project is an RPZ/CZ → *Project cannot proceed at this location.*

☐ No, project is not within an APZ or RPZ/CZ

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within either zone.*

- 3. Is the project in conformance with DOD guidelines for APZ?**

☐ Yes, project is consistent with DOD guidelines without further action.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

☐ No, the project cannot be brought into conformance with DOD guidelines and has not been approved.

→ *Project cannot proceed at this location.*



**If mitigation measures have been or will be taken, explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

[Click here to enter text.](#)

*→ Work with the RE/HUD to develop mitigation measures. Continue to the Worksheet Summary below. Provide any documentation supporting this determination.*

**Worksheet Summary**

The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport. The nearest municipal airport is the Fullerton Municipal Airport, approximately 7.1 miles west of the project site and the nearest military airport is Los Alamitos Army Airfield Base Operations, about 10.6 miles southwest of the proposed project site.

See Attachment 5.

## **ERR No. 2. Coastal Barrier Resources**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

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### Coastal Barrier Resources (CEST and EA)

General requirements	Legislation	Regulation
HUD financial assistance may not be used for most activities in units of the Coastal Barrier Resources System (CBRS). See 16 USC 3504 for limitations on federal expenditures affecting the CBRS.	Coastal Barrier Resources Act (CBRA) of 1982, as amended by the Coastal Barrier Improvement Act of 1990 (16 USC 3501)	
References		
<a href="https://www.hudexchange.info/environmental-review/coastal-barrier-resources">https://www.hudexchange.info/environmental-review/coastal-barrier-resources</a>		

Projects located in the following states must complete this form.

Alabama	Georgia	Massachusetts	New Jersey	Puerto Rico	Virgin Islands
Connecticut	Louisiana	Michigan	New York	Rhode Island	Virginia
Delaware	Maine	Minnesota	North Carolina	South Carolina	Wisconsin
Florida	Maryland	Mississippi	Ohio	Texas	

#### 1. Is the project located in a CBRS Unit?

☒ No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a CBRS Unit.*

☐ Yes → *Continue to Question 2.*

Federal assistance for most activities may not be used at this location. You must either choose an alternate site or cancel the project. In very rare cases, federal monies can be spent within CBRS units for certain exempted activities (e.g., a nature trail), after consultation with the Fish and Wildlife Service (FWS) (see [16 USC 3505](#) for exceptions to limitations on expenditures).

#### 2. Indicate your selected course of action.

☐ After consultation with the FWS the project was given approval to continue

→ Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map and documentation of a FWS approval.

☐ Project was not given approval

Project cannot proceed at this location.

### **Worksheet Summary**

According to Coastal Barrier Resources System (CBRS) information accessed at <https://fwsprimary.wim.usgs.gov/CBRSMapper-v2/>, there are no units of the CBRS in California, and the project site is not located within a CBRS Unit. Therefore, the project is in compliance with HUD's CBRS regulations, and no mitigation is warranted. Therefore, this project is in compliance with the Coastal Barrier Resources Act.

See Attachment 6.

### **ERR No. 3. Flood Insurance**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

OMB No. 2506-0177

(exp. 2/28/2025)

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Flood Insurance (CEST and EA)

General requirements	Legislation	Regulation
Certain types of federal financial assistance may not be used in floodplains unless the community participates in National Flood Insurance Program and flood insurance is both obtained and maintained.	Flood Disaster Protection Act of 1973 as amended (42 USC 4001-4128)	24 CFR 50.4(b)(1) and 24 CFR 58.6(a) and (b); 24 CFR 55.1(b).
Reference		
<a href="https://www.hudexchange.info/environmental-review/flood-insurance">https://www.hudexchange.info/environmental-review/flood-insurance</a>		

**1. Does this project involve mortgage insurance, refinance, acquisition, repairs, construction, or rehabilitation of a structure, mobile home, or insurable personal property?**

☐ No. This project does not require flood insurance or is excepted from flood insurance.  
→ Continue to the Worksheet Summary.

☒ Yes → Continue to Question 2.

**2. Provide a FEMA/FIRM map showing the site.**

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs). For projects in areas not mapped by FEMA, use the best available information to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site. Provide FEMA/FIRM floodplain zone designation, panel number, and date within your documentation.

**Is the structure, part of the structure, or insurable property located in a FEMA-designated Special Flood Hazard Area?**

☒ No → Continue to the Worksheet Summary.

☐ Yes → Continue to Question 3.

**3. Is the community participating in the National Flood Insurance Program or has less than one year passed since FEMA notification of Special Flood Hazards?**

☐ Yes, the community is participating in the National Flood Insurance Program.

For loans, loan insurance or loan guarantees, flood insurance coverage must be continued for the term of the loan. For grants and other non-loan forms of financial assistance, flood insurance coverage must be continued for the life of the building irrespective of the transfer of ownership. The amount of coverage must equal the total project cost or the maximum coverage limit of the National Flood Insurance Program, whichever is less.

Provide a copy of the flood insurance policy declaration or a paid receipt for the current annual flood insurance premium and a copy of the application for flood insurance.

→ *Continue to the Worksheet Summary.*

☐ Yes, less than one year has passed since FEMA notification of Special Flood Hazards.

If less than one year has passed since notification of Special Flood Hazards, no flood Insurance is required.

→ *Continue to the Worksheet Summary.*

☐ No. The community is not participating, or its participation has been suspended.

Federal assistance may not be used at this location. Cancel the project at this location.

**Worksheet Summary**

According to FEMA FIRM # 06059C0132J and 06059C0151J, both effective on December 3, 2009 and accessed at <https://msc.fema.gov/portal/home>, the project site is within Zone X - Unshaded (Area of minimal flood hazard) (FEMA 2012). The project site is designated as an area outside the 100-year base flood zone and the 500-year flood zone. According to the National Flood Insurance Program's (NFIP) Community Status Book (<https://www.fema.gov/flood-insurance/work-with-nfip/community-status-book>), the project site is in Community ID 060229#, which is a participating community in the NFIP. However, because no structures or insurable properties are within a Special Flood Hazard Area, flood insurance is not required under the NFIP. Although flood insurance may not be mandatory in this instance, HUD recommends that all insurable structures maintain flood insurance under the NFIP. The project is in compliance with flood insurance requirements.

See Attachment 7.

## **ERR No. 4. Air Quality**





U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Air Quality (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/air-quality>

1. Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?

☒ Yes → Continue to Question 2.

☐ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide any documents used to make your determination.

2. Is your project’s air quality management district or county in non-attainment or maintenance status for any criteria pollutants?

Follow the link below to determine compliance status of project county or air quality management district:

<https://www.epa.gov/green-book>

☐ No, project’s county or air quality management district is in attainment status for all criteria pollutants

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

☒ Yes, project’s management district or county is in non-attainment or maintenance status for one or more criteria pollutants. → Continue to Question 3.

3. Determine the estimated emissions levels of your project for each of those criteria pollutants that are in non-attainment or maintenance status on your project area. Will your project exceed any of the *de minimis* or *threshold* emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?

☒ No, the project will not exceed *de minimis* or threshold emissions levels or screening levels

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Explain how you determined that the project would not exceed *de minimis* or threshold emissions.

☐ Yes, the project exceeds *de minimis* emissions levels or screening levels.

→ *Continue to Question 4. Explain how you determined that the project would not exceed de minimis or threshold emissions in the Worksheet Summary.*

- 4. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

[Click here to enter text.](#)

### **Worksheet Summary**

CalEEMod was used to model emissions during the construction and operational phases of the proposed project. Results of the model indicate that the proposed project would not exceed the South Coast Air Quality Management District's emissions thresholds during the construction or operational phases. Estimated annual construction emissions for the proposed project, assuming construction would occur in 2024–2025, are approximately 280.62 metric tons (30-year amortized emissions would reduce this to 9.72 metric tons). Estimated annual emissions during the operational phase are approximately 396.94 metric tons. In total, the proposed project is estimated to produce 406.29 metric tons of emissions per year. Daily emissions from the proposed project would not exceed the SCAQMD's regional construction or operation emissions thresholds. Air quality at the project site would be minimally impacted by fugitive dust (PM<sub>10</sub>) and other particulate air pollutants (PM<sub>2.5</sub>) since the project site is currently vacant. Ground-disturbing activities, such as land clearing and grading, would be minimal. Similarly, exhaust emissions (oxides of nitrogen [NO<sub>x</sub>] and carbon monoxide [CO]) released by heavy construction vehicles would be minimized since construction vehicles related to clearing and grading would only be onsite temporarily.

See Attachment 8.

## **ERR No. 5. Coastal Zone Management Act**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

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## Coastal Zone Management Act (CEST and EA)

General requirements	Legislation	Regulation
Federal assistance to applicant agencies for activities affecting any coastal use or resource is granted only when such activities are consistent with federally approved State Coastal Zone Management Act Plans.	Coastal Zone Management Act (16 USC 1451-1464), particularly section 307(c) and (d) (16 USC 1456(c) and (d))	15 CFR Part 930
References		
<a href="https://www.onecpd.info/environmental-review/coastal-zone-management">https://www.onecpd.info/environmental-review/coastal-zone-management</a>		

Projects located in the following states must complete this form.

Alabama	Florida	Louisiana	Mississippi	Ohio	Texas
Alaska	Georgia	Maine	New Hampshire	Oregon	Virgin Islands
American Samona	Guam	Maryland	New Jersey	Pennsylvania	Virginia
California	Hawaii	Massachusetts	New York	Puerto Rico	Washington
Connecticut	Illinois	Michigan	North Carolina	Rhode Island	Wisconsin
Delaware	Indiana	Minnesota	Northern Mariana Islands	South Carolina	

### 1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?

☐ Yes → Continue to Question 2.

☒ No → Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing that the site is not within a Coastal Zone.

### 2. Does this project include activities that are subject to state review?

☐ Yes → Continue to Question 3.

☐ No → Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.

**3. Has this project been determined to be consistent with the State Coastal Management Program?**

☐ Yes, with mitigation. → *Continue to Question 4.*

☐ Yes, without mitigation. → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination.*

☐ No, project must be canceled.

Project cannot proceed at this location.

**4. Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

→ *Continue to the Worksheet Summary below. Provide documentation of the consultation (including the State Coastal Management Program letter of consistency) and any other documentation used to make your determination.*

**Worksheet Summary**

The proposed project site is not within the California Coastal Zone. Therefore, the proposed undertaking is in compliance with HUD's Coastal Zone Management Act regulations, and no mitigation is warranted. The project is in compliance with the Coastal Zone Management Act.

See Attachment 9.

**ERR No. 6. Contamination and Toxic Substances (Multifamily and  
Non-Residential Properties)**



This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Contamination and Toxic Substances (Multifamily and Non-Residential Properties) – PARTNER

<https://www.hudexchange.info/programs/environmental-review/site-contamination>

**1. How was site contamination evaluated?<sup>1</sup> Select all that apply.**

- ☒ ASTM Phase I ESA
- ☐ ASTM Phase II ESA
- ☐ Remediation or clean-up plan
- ☐ ASTM Vapor Encroachment Screening
- ☐ None of the above

→ Provide documentation and reports and include an explanation of how site contamination was evaluated in the Worksheet Summary.

Continue to Question 2.

**2. Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)**

- ☒ No → Explain below.

The proposed project site is currently vacant. A Phase I Environmental Site Assessment (ESA) conducted by Partner Engineering, Inc. (Partner) in September 2023 did not find any recognized environmental conditions (RECs), controlled RECs, or historical RECs on the project site. Assessment of asbestos-containing materials (ACMs), lead-based paint (LBP), and mold was not considered within the scope of the site visit due to the lack of structures onsite.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

---

<sup>1</sup> HUD regulations at 24 CFR § 58.5(i)(2)(ii) require that the environmental review for multifamily housing with five or more dwelling units or non-residential property include the evaluation of previous uses of the site or other evidence of contamination on or near the site. For acquisition and new construction of multifamily and nonresidential properties HUD strongly advises the review include an ASTM Phase I Environmental Site Assessment (ESA) to meet real estate transaction standards of due diligence and to help ensure compliance with HUD’s toxic policy at 24 CFR §58.5(i) and 24 CFR §50.3(i). Also note that some HUD programs require an ASTM Phase I ESA.

☐ Yes → Describe the findings, including any recognized environmental conditions (RECs), in Worksheet Summary below. Continue to Question 3.

**3. Can adverse environmental impacts be mitigated?**

☐ Adverse environmental impacts cannot feasibly be mitigated → HUD assistance may not be used for the project at this site. Project cannot proceed at this location.

☐ Yes, adverse environmental impacts can be eliminated through mitigation.  
→ Provide all mitigation requirements<sup>2</sup> and documents. Continue to Question 4.

**4. Describe how compliance was achieved. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls<sup>3</sup>, or use of institutional controls<sup>4</sup>.**

[Click here to enter text.](#)

**If a remediation plan or clean-up program was necessary, which standard does it follow?**

- ☐ Complete removal  
☐ Risk-based corrective action (RBCA)

→ Continue to the Worksheet Summary.

**Worksheet Summary**

A Phase I Environmental Site Assessment (ESA) conducted by Partner Engineering, Inc. (Partner) in September 2023 did not find any recognized environmental conditions (RECs), controlled RECs, or historical RECs on the project site. Assessment of asbestos-containing materials (ACMs), lead-based paint (LBP), and mold was not considered within the scope of the site visit due to the lack of structures onsite.

In compliance with HUD's radon policy notice published in January 2024, indoor radon testing at the new affordable housing community will occur after construction is complete and before residents move in. If testing determines that indoor radon levels are or may be above 4pCi/L, then the Developer must document and implement a mitigation plan and alert the County that the threshold has been exceeded. The mitigation plan must identify the radon level onsite, describe the radon reduction system that will

---

<sup>2</sup> Mitigation requirements include all clean-up actions required by applicable federal, state, tribal, or local law. Additionally, provide, as applicable, the long-term operations and maintenance plan, Remedial Action Work Plan, and other equivalent documents.

<sup>3</sup> Engineering controls are any physical mechanism used to contain or stabilize contamination or ensure the effectiveness of a remedial action. Engineering controls may include, without limitation, caps, covers, dikes, trenches, leachate collection systems, signs, fences, physical access controls, ground water monitoring systems and ground water containment systems including, without limitation, slurry walls and ground water pumping systems.

<sup>4</sup> Institutional controls are mechanisms used to limit human activities at or near a contaminated site, or to ensure the effectiveness of the remedial action over time, when contaminants remain at a site at levels above the applicable remediation standard which would allow for unrestricted use of the property. Institutional controls may include structure, land, and natural resource use restrictions, well restriction areas, classification exception areas, deed notices, and declarations of environmental restrictions.



be installed, establish an ongoing maintenance plan, establish a reasonable timeframe for system implementation, and require post-installation testing by a licensed radon professional (**MM-TOX-1**).

See Attachment 4.

## **ERR No. 7. Endangered Species Act**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Endangered Species Act (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/endangered-species>

### 1. Does the project involve any activities that have the potential to affect species or habitats?

☐ No, the project will have No Effect due to the nature of the activities involved in the project.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

☐ No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office.

**Explain your determination:**

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.

☒ Yes, the activities involved in the project have the potential to affect species and/or habitats.

→ Continue to Question 2.

### 2. Are federally listed species or designated critical habitats present in the action area?

Obtain a list of protected species from the Services. This information is available on the [FWS Website](#).

☒ No, the project will have No Effect due to the absence of federally listed species and designated critical habitat.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation may include letters from the Services, species lists from the Services’ websites, surveys or other documents and analysis showing that there are no species in the action area.

☐ Yes, there are federally listed species or designated critical habitats present in the action area.

→ Continue to Question 3.

**3. Recommend one of the following effects that the project will have on federally listed species or designated critical habitat:**

☐ No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate.*

☐ May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Informal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

☐ Likely to Adversely Affect: The project may have negative effects on one or more listed species or critical habitat.

→ Partner entities should not contact the Services directly. *If the RE/HUD agrees with this recommendation, they will have to complete Formal Consultation. Provide the RE/HUD with a biological evaluation or equivalent document. They may request additional information, including surveys and professional analysis, to complete their consultation.*

**Worksheet Summary**

The U.S. Fish and Wildlife Service IPaC database was used to identify federally protected species at the project site. Six species classified as endangered or threatened were identified as possibly occurring on the project site. However, given the urban and commercial setting of the site and of the surrounding project area, no federally listed special-status plant or wildlife species are expected to be present due to the lack of suitable habitat.

See Attachment 10.

## **ERR No. 8. Explosive and Flammable Hazards**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

**Explosive and Flammable Hazards (CEST and EA) – PARTNER**

<https://www.hudexchange.info/environmental-review/explosive-and-flammable-facilities>

1. Is the proposed HUD-assisted project itself the development of a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?

☒ No

→ Continue to Question 2.

☐ Yes

**Explain:**

[Click here to enter text.](#)

→ Go directly to Question 5.

2. Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?

☐ No → If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

☒ Yes → Continue to Question 3.

3. Within 1 mile of the project site, are there any current *or planned* stationary aboveground storage containers that are covered by 24 CFR 51C? Containers that are NOT covered under the regulation include:

- Containers 100 gallons or less in capacity, containing common liquid industrial fuels OR
- Containers of liquified petroleum gas (LPG) or propane with a water volume capacity of 1,000 gallons or less that meet the requirements of the 2017 or later version of National Fire Protection Association (NFPA) Code 58.

If all containers within the search area fit the above criteria, answer “no.” For any other type of aboveground storage container within the search area that holds one of the flammable or explosive materials listed in Appendix I of 24 CFR part 51 subpart C, answer “yes.”

☐ No

→ Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide all documents used to make your determination.

☒ Yes

→ Continue to Question 4.

4. Visit HUD's website to identify the appropriate tank or tanks to assess and to calculate the required separation distance using the [electronic assessment tool](#). To document this step in the analysis, please attach the following supporting documents to this screen:

- Map identifying the tank selected for assessment, and showing the distance from the tank to the proposed HUD-assisted project site; and
- Electronic assessment tool calculation of the required separation distance.

Based on the analysis, is the proposed HUD-assisted project site located at or beyond the required separation distance from all covered tanks?

☒ Yes

→ Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.

☐ No

→ Go directly to Question 6.

5. Is the hazardous facility located at an acceptable separation distance from residences and any other facility or area where people may congregate or be present?

Please visit HUD's website for information on calculating Acceptable Separation Distance.

☐ Yes

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

☐ No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Mitigation measures may include both natural and manmade barriers, modification of the project design, burial or removal of the hazard, or other engineered solutions. Describe selected mitigation measures, including the timeline for implementation, and attach an implementation plan. If negative effects cannot be mitigated, cancel the project at this location.

Note that only licensed professional engineers should design and implement blast barriers. If a barrier will be used or the project will be modified to compensate for an unacceptable separation distance, provide approval from a licensed professional engineer.

[Click here to enter text.](#)

## **Worksheet Summary**

The following resources were reviewed to identify aboveground storage tank (AST) locations, contents, volumes, and distance from subject property:

- EDR Radius Report for the project site with a 1-mile radius buffering the site
- California Environmental Protection Agency (CalEPA) Regulated Site Portal at <https://siteportal.calepa.ca.gov/nsite/map/help>
- Appendix I to Subpart C of Parts 51- Specific Hazardous Substances at <https://www.ecfr.gov/current/title-24/subtitle-A/part-51/subpart-C>
- HUD Acceptable Separation Distance (ASD) Electronic Assessment Tool at <https://www.hudexchange.info/programs/environmental-review/asd-calculator/>

An EDR Radius Report was obtained for the proposed project site to identify aboveground storage tanks (ASTs) within a 1-mile radius of the project area. The report identified four sites with ASTs but did not provide details on the size and content of all ASTs listed within 1-mile of the project site. The CalEPA Regulated Site Portal website was then used to identify and evaluate the type and amounts of chemicals stored at each site identified as having an AST by the EDR report. Chemicals not listed as a hazardous substance in Appendix I to Subpart C of Part 51 (§ 51.201) were considered exempt from this analysis. Each site identified in the EDR report contained at least one chemical that is considered hazardous according to § 51.201. Once the chemicals considered exempt were removed, the acceptable separation distances were calculated using HUD's ASD Tool. The CalEPA website provides information on the chemicals stored at each facility and the maximum amount of those chemicals that could be stored at every site. The resources available for review did not provide precise volumes for the ASTs. As a result, the maximum quantity of the volume range was used for each AST for the purpose of calculating the ASDs.

All four sites identified as potentially storing hazardous or flammable materials in ASTs were adequately separated from the project site for thermal radiation for people. Maps and ASD calculations for the sites that contain materials listed 24 CFR 51C are provided in Attachment 11.



## **ERR No. 9. Farmlands Protection**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

OMB No. 2506-0177  
(exp.2/28/2025)

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

## Farmlands Protection (CEST and EA)

General requirements	Legislation	Regulation
The Farmland Protection Policy Act (FPPA) discourages federal activities that would convert farmland to nonagricultural purposes.	Farmland Protection Policy Act of 1981 (7 U.S.C. 4201 et seq.)	<a href="#">7 CFR Part 658</a>
Reference		
<a href="https://www.hudexchange.info/environmental-review/farmlands-protection">https://www.hudexchange.info/environmental-review/farmlands-protection</a>		

**1. Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?**

☐ Yes → *Continue to Question 2.*

☒ No

**Explain how you determined that agricultural land would not be converted:**

The California Department of Conservation’s California Important Farmland Finder, accessed at <https://maps.conservation.ca.gov/dlrp/ciff/>, was used to identify Important Farmlands in the project area.

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documentation supporting your determination.*

**2. Does “important farmland,” including prime farmland, unique farmland, or farmland of statewide or local importance regulated under the Farmland Protection Policy Act, occur on the project site?**

You may use the links below to determine important farmland occurs on the project site:

- Utilize USDA Natural Resources Conservation Service’s (NRCS) Web Soil Survey <http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm>
- Check with your city or county’s planning department and ask them to document if the project is on land regulated by the FPPA (zoning important farmland as non-agricultural does not exempt it from FPPA requirements)

- Contact NRCS at the local USDA service center  
<http://offices.sc.egov.usda.gov/locator/app?agency=nrsc> or your NRCS state soil scientist [http://soils.usda.gov/contact/state\\_offices/](http://soils.usda.gov/contact/state_offices/) for assistance

☒ No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide any documents used to make your determination.*

☐ Yes → *Continue to Question 3.*

**3. Consider alternatives to completing the project on important farmland and means of avoiding impacts to important farmland.**

- Complete form **AD-1006**, "Farmland Conversion Impact Rating" [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb1045394.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1045394.pdf) and contact the state soil scientist before sending it to the local NRCS District Conservationist. (NOTE: for corridor type projects, use instead form **NRCS-CPA-106**, "Farmland Conversion Impact Rating for Corridor Type Projects: [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/stelprdb1045395.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/stelprdb1045395.pdf).)
- Work with NRCS to minimize the impact of the project on the protected farmland. When you have finished with your analysis, return a copy of form AD-1006 (or form NRCS-CPA-106 if applicable) to the USDA-NRCS State Soil Scientist or his/her designee informing them of your determination.

**Document your conclusion:**

☐ Project will proceed with mitigation.

**Explain in detail the proposed measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

☐ Project will proceed without mitigation.

**Explain why mitigation will not be made here:**

→ *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide form AD-1006 and all other documents used to make your determination.*

### **Worksheet Summary**

The California Department of Conservation's California Important Farmland Finder, accessed at <https://maps.conservation.ca.gov/dlrp/ciff/>, was used to identify Important Farmlands in the project area. The project site is on land designated as Urban and Built-Up Land. Furthermore, the proposed project would be built above an existing garage, and no ground-disturbing activities are required. There are no Important Farmlands on the project site or in adjacent areas. The project is in compliance with the Farmland Protection Policy.

See Attachment 12.

## **ERR No. 10. Floodplain Management**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

OMB No. 2506-0177  
(exp. 2/28/2025)

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## Floodplain Management (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/floodplain-management>

1. Does **24 CFR 55.12(c)** exempt this project from compliance with HUD’s floodplain management regulations in Part 55?

☐ Yes

Provide the applicable citation at 24 CFR 55.12(c) here. If project is exempt under 55.12(c)(6) or (8), provide supporting documentation.

[Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Continue to the Worksheet Summary.

☒ No → Continue to Question 2.

2. Provide a FEMA/FIRM map showing the site.

The Federal Emergency Management Agency (FEMA) designates floodplains. The [FEMA Map Service Center](#) provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs).

### Does your project occur in a floodplain?

☒ No → Continue to the Worksheet Summary below.

☐ Yes

Select the applicable floodplain using the FEMA map or the best available information:

☐ Floodway → Continue to Question 3, Floodways

☐ Coastal High Hazard Area (V Zone) → Continue to Question 4, Coastal High Hazard Areas

☐ 500-year floodplain (B Zone or shaded X Zone) → Continue to Question 5, 500-year Floodplains

☐ 100-year floodplain (A Zone) → The 8-Step Process is required. Continue to Question 6, 8-Step Process

3. **Floodways**

Is this a functionally dependent use?

☐ Yes

The 8-Step Process is required. Work with HUD or the RE to assist with the 8-Step Process.

→ Continue to Worksheet Summary.

- ☐ No → *Federal assistance may not be used at this location unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

**4. Coastal High Hazard Area**

**Is this a critical action such as a hospital, nursing home, fire station, or police station?**

- ☐ Yes → *Critical actions are prohibited in coastal high hazard areas unless an exception in 55.12(c) applies. You must either choose an alternate site or cancel the project.*

- ☐ No

**Does this action include new construction that is not a functionally dependent use, existing construction (including improvements), or reconstruction following destruction caused by a disaster?**

- ☐ Yes, there is new construction of something that is not a functionally dependent use.  
New construction must be designed to FEMA standards for V Zones at 44 CFR 60.3(e) (24 CFR 55.1(c)(3)(i)).  
→ Continue to Question 6, 8-Step Process
- ☐ No, this action concerns only existing construction.  
Existing construction must have met FEMA elevation and construction standards for a coastal high hazard area or other standards applicable at the time of construction.  
→ Continue to Question 6, 8-Step Process

**5. 500-year Floodplain**

**Is this a critical action?**

- ☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

- ☐ Yes → Continue to Question 6, 8-Step Process

**6. 8-Step Process.**

**Is this 8-Step Process required? Select one of the following options:**

- ☐ 8-Step Process applies.  
This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD's elevation requirements.  
→ Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.
- ☐ 5-Step Process is applicable per 55.12(a)(1-3).  
**Provide the applicable citation at 24 CFR 55.12(a) here.**  
[Click here to enter text.](#)  
→ Work with the RE/HUD to assist with the 5-Step Process. Continue to Worksheet Summary.
- ☐ 8-Step Process is inapplicable per 55.12(b)(1-4).  
**Provide the applicable citation at 24 CFR 55.12(b) here.**  
[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

### **Worksheet Summary**

According to FEMA FIRM # 06059C0132J and 06059C0151J, both effective on December 3, 2009 and accessed at <https://msc.fema.gov/portal/home>, the project site is within Zone X - Unshaded (Area of minimal flood hazard) (FEMA 2012). The project site is designated as an area outside the 100-year base flood zone and the 500-year flood zone. Because the project site does not occur within a floodplain, the project is in compliance with Executive Order 11988.

See Attachment 7.



## **ERR No. 11. Historic Preservation**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Historic Preservation (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/historic-preservation>

### Threshold

#### Is Section 106 review required for your project?

- ☐ No, because a Programmatic Agreement states that all activities included in this project are exempt. (See the [PA Database](#) to find applicable PAs.)

**Either provide the PA itself or a link to it here. Mark the applicable exemptions or include the text here:**

[Click here to enter text.](#)

→ *Continue to the Worksheet Summary.*

- ☐ No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

**Either provide the memo itself or a link to it here. Explain and justify the other determination here:**

[Click here to enter text.](#)

→ *Continue to the Worksheet Summary.*

- ☒ Yes, because the project includes activities with potential to cause effects (direct or indirect). → *Continue to Step 1.*

#### **The Section 106 Process**

After determining the need to do a Section 106 review, HUD or the RE will initiate consultation with regulatory and other interested parties, identify and evaluate historic properties, assess effects of the project on properties listed on or eligible for the National Register of Historic Places, and resolve any adverse effects through project design modifications or mitigation.

Step 1: Initiate consultation

Step 2: Identify and evaluate historic properties

Step 3: Assess effects of the project on historic properties

Step 4: Resolve any adverse effects

Only RE or HUD staff may initiate the Section 106 consultation process. Partner entities may gather information, including from SHPO records, identify and evaluate historic properties, and make initial assessments of effects of the project on properties listed in or eligible for the National Register of Historic Place. Partners should then provide their RE or HUD with all of their analysis and documentation so that they may initiate consultation.

## Step 1 - Initiate Consultation

The following parties are entitled to participate in Section 106 reviews: Advisory Council on Historic Preservation; State Historic Preservation Officers (SHPOs); federally recognized Indian tribes/Tribal Historic Preservation Officers (THPOs); Native Hawaiian Organizations (NHOs); local governments; and project grantees. The general public and individuals and organizations with a demonstrated interest in a project may participate as consulting parties at the discretion of the RE or HUD official. Participation varies with the nature and scope of a project. Refer to HUD's website for guidance on consultation, including the required timeframes for response. Consultation should begin early to enable full consideration of preservation options.

Use the [When To Consult With Tribes checklist](#) within [Notice CPD-12-006: Process for Tribal Consultation](#) to determine if the RE or HUD should invite tribes to consult on a particular project. Use the [Tribal Directory Assessment Tool \(TDAT\)](#) to identify tribes that may have an interest in the area where the project is located. Note that only HUD or the RE may initiate consultation with Tribes. Partner entities may prepare a draft letter for the RE or HUD to use to initiate consultation with tribes, but may not send the letter themselves.

**List all organizations and individuals that you believe may have an interest in the project here:**  
State Historic Preservation Office

→ Continue to Step 2.

## Step 2 - Identify and Evaluate Historic Properties

**Provide a preliminary definition of the Area of Potential Effect (APE), either by entering the address(es) or providing a map depicting the APE.** Attach an additional page if necessary.

300, 307-311, 312, 314, and 323 Baker Street  
Placentia, California 92870

Gather information about known historic properties in the APE. Historic buildings, districts and archeological sites may have been identified in local, state, and national surveys and registers, local historic districts, municipal plans, town and county histories, and local history websites. If not already listed on the National Register of Historic Places, identified properties are then evaluated to see if they are eligible for the National Register. Refer to HUD's website for guidance on identifying and evaluating historic properties.

**In the space below, list historic properties identified and evaluated in the APE.**

Every historic property that may be affected by the project should be listed. For each historic property or district, include the National Register status, whether the SHPO has concurred with the finding, and whether information on the site is sensitive. Attach an additional page if necessary.

[Click here to enter text.](#)

*Provide the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination.*

**Was a survey of historic buildings and/or archeological sites done as part of the project?**

If the APE contains previously unsurveyed buildings or structures over 50 years old, or there is a likely presence of previously unsurveyed archeological sites, a survey may be necessary. For Archeological surveys, refer to HP Fact Sheet #6, [Guidance on Archeological Investigations in HUD Projects](#).

☐ Yes → *Provide survey(s) and report(s) and continue to Step 3.*

Additional notes:

[Click here to enter text.](#)

☒ No → *Continue to Step 3.*

**Step 3 - Assess Effects of the Project on Historic Properties**

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. ([36 CFR 800.5](#)) Consider direct and indirect effects as applicable as per HUD guidance.

**Choose one of the findings below to recommend to the RE or HUD.**

Please note: this is a recommendation only. It is **not** the official finding, which will be made by the RE or HUD, but only your suggestion as a Partner entity.

☒ No Historic Properties Affected

**Document reason for finding:**

☒ No historic properties present.

☐ Historic properties present, but project will have no effect upon them.

☐ No Adverse Effect

**Document reason for finding and provide any comments below.**

Comments may include recommendations for mitigation, monitoring, a plan for unanticipated discoveries, etc.

☐ Adverse Effect

**Document reason for finding:**

Copy and paste applicable Criteria into text box with summary and justification.

Criteria of Adverse Effect: [36 CFR 800.5](#)

[Click here to enter text.](#)

**Provide any comments below:**

Comments may include recommendations for avoidance, minimization, and/or mitigation.

[Click here to enter text.](#)

*Remember to provide all documentation that justifies your National Register Status determination and recommendations along with this worksheet.*

## **ERR No. 12. Noise (EA Level Reviews)**



**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**  
WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Noise (EA Level Reviews) – PARTNER

<https://www.hudexchange.info/programs/environmental-review/noise-abatement-and-control>

**1. What activities does your project involve? Check all that apply:**

☒ New construction for residential use

NOTE: HUD assistance to new construction projects is generally prohibited if they are located in an Unacceptable zone, and HUD discourages assistance for new construction projects in Normally Unacceptable zones. See 24 CFR 51.101(a)(3) for further details.

→ Continue to Question 2.

☐ Rehabilitation of an existing residential property

NOTE: For major or substantial rehabilitation in Normally Unacceptable zones, HUD encourages mitigation to reduce levels to acceptable compliance standards. For major rehabilitation in Unacceptable zones, HUD strongly encourages mitigation to reduce levels to acceptable compliance standards. See 24 CFR 51 Subpart B for further details.

→ Continue to Question 2.

☐ None of the above

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

**2. Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000’ from a major road, 3000’ from a railroad, or 15 miles from an airport).**

**Indicate the findings of the Preliminary Screening below:**

☐ There are no noise generators found within the threshold distances above.

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map showing the location of the project relative to any noise generators.

☒ Noise generators were found within the threshold distances.

→ Continue to Question 3.

**3. Complete the Noise Assessment Guidelines to quantify the noise exposure. Indicate the findings of the Noise Assessment below:**

☐ Acceptable (65 decibels or less; the ceiling may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

**Indicate noise level here:** [Click here to enter text.](#)

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide noise analysis, including noise level and data used to complete the analysis.

☒ Normally Unacceptable: (Above 65 decibels but not exceeding 75 decibels; the floor may be shifted to 70 decibels in circumstances described in 24 CFR 51.105(a))

**Indicate noise level here:**

→ Noise levels at the project's exterior façade were measured to be 75.3 dBA DNL. Additionally, it is likely that passenger and freight rail traffic on the rail line to the south will increase in the future, so these noise levels can be expected to increase a few decibels (an increase of approximately 3 dB is likely a good conservative estimate). Thus, future combined (rail plus traffic) noise is estimated to be approximately 78 dBA DNL at the project's southern façade. An analysis of noise levels at the proposed outdoor amenity areas (in particular the 5<sup>th</sup>-floor sky deck) was conducted using Cadna/A\*. Cadna/A\* is a computer program for the calculation and assessment of noise levels from construction activities, industrial facilities and other noise sources. The program allows for input of all pertinent features (such as terrain or structures) that affect noise, resulting in a highly accurate estimate of existing and future noise levels. The resulting noise level at the worst-case outdoor amenity area (near the southwestern edge of the sky deck) was 64.7 dBA DNL. At the next-nearest outdoor amenity area with a rail noise exposure, at the 2<sup>nd</sup>-level podium deck, the exterior noise level would be approximately 58 dBA DNL. Thus, the estimated future exterior noise level at the outdoor amenity areas would not exceed the 65 dBA DNL noise standard. While ambient outdoor noise levels at the sky deck and 2<sup>nd</sup>-level podium deck would be below the HUD exterior noise threshold, noise levels at the proposed project's southern façade would be in excess of the 75 dBA DNL threshold. However, since the project will be able to mitigate noise to a level within HUD thresholds and no impacts to other resources are expected to be significant, the project will seek a waiver of the EIS requirement for projects in unacceptable noise zones per HUD's guidance on the waiver process for sites in the unacceptable noise zone.

If project is rehabilitation:

→ Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis.

If project is new construction:

**Is the project in a largely undeveloped area<sup>1</sup>?**

☒ No

☐ Yes → ***The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i).***

→ Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis.

☐ Unacceptable: (Above 75 decibels)

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<sup>1</sup> A largely undeveloped area means the area within 2 miles of the project site is less than 50 percent developed with urban uses or does not have water and sewer capacity to serve the project.



**Indicate noise level here:** [Click here to enter text.](#)

If project is rehabilitation:

*HUD strongly encourages conversion of noise-exposed sites to land uses compatible with high noise levels. Consider converting this property to a non-residential use compatible with high noise levels.*

*→ Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis, and any other relevant information.*

If project is new construction:

***The project requires completion of an Environmental Impact Statement (EIS) pursuant to 51.104(b)(1)(i). Work with HUD or the RE to either complete an EIS or obtain a waiver signed by the appropriate authority.***

*→ Continue to Question 4.*

- 4. HUD strongly encourages mitigation be used to eliminate adverse noise impacts. Work with the RE/HUD on the development of the mitigation measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation.**

☒ Mitigation as follows will be implemented:

The proposed project would implement mitigation measures at the site to reduce interior noise levels to within the HUD threshold of 45 dBA DNL. Since exterior noise levels at the project's southern façade would be approximately 78 dBA DNL, the project's building shell (walls, doors, windows, and roof structure assemblies), would need to achieve a minimum of 33 dB noise reduction in order to meet the HUD requirement for interior noise reduction in order to meet the HUD requirement for interior living spaces. It would be the responsibility of the developer, Mercy Housing, to implement mitigation into the project's building materials so that HUD's thresholds are met (**MM-NOI-1**). Prior to approval of building permits, the developer shall demonstrate that interior noise levels due to exterior noise sources will not exceed the applicable HUD standard of 45 dBA DNL. It is anticipated that compliance would be achieved by structural upgrades of wall assemblies, acoustically rated windows and doors, and air conditioning or equivalent forced air circulation to allow occupancy with closed windows. An acoustical study shall be prepared by a qualified acoustician (retained at the developer's expense) and include detailed noise reduction calculations accounting for room volumes, wall and window/door dimensions, and sound transmission class (STC) ratings (**MM-NOI-2**). Prior to issuance of the Certificate for Occupancy, the developer shall demonstrate that exterior and interior noise levels do not exceed the applicable HUD standards of 65 dBA DNL for outdoor amenity areas and 45 dBA DNL for interior living spaces by carrying out post-construction noise measurements. The noise measurements shall be conducted at a representative number of locations and rooms by a qualified acoustician. The measurements shall use ANSI Type 1 or Type 2 sound level meters and shall be carried out using methods consistent with the practice (i.e., pre-and post-measurement validation of instrument calibration, etc.) (**MM-NOI-3**). Complete details on noise monitoring, modeling, and results are provided in the Noise Analysis Summary, Dudek, April 2024, provided as Attachment 15.

*→ Provide drawings, specifications, and other materials as needed to describe the project's noise mitigation measures.*

*Continue to the Worksheet Summary.*

☐ No mitigation is necessary.

**Explain why mitigation will not be made here:**

[Click here to enter text.](#)

→ *Continue to the Worksheet Summary.*

### **Worksheet Summary**

See attached Noise Analysis Summary, Dudek, April 2024 (Attachments 14 and 15).

## **ERR No. 13. Sole Source Aquifers**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Sole Source Aquifers (CEST and EA)

General requirements	Legislation	Regulation
The Safe Drinking Water Act of 1974 protects drinking water systems which are the sole or principal drinking water source for an area and which, if contaminated, would create a significant hazard to public health.	Safe Drinking Water Act of 1974 (42 U.S.C. 201, 300f et seq., and 21 U.S.C. 349)	40 CFR Part 149
Reference		
<a href="https://www.hudexchange.info/environmental-review/sole-source-aquifers">https://www.hudexchange.info/environmental-review/sole-source-aquifers</a>		

**1. Does your project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?**

☐ Yes → Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below.

☒ No → Continue to Question 2.

**2. Is the project located on a sole source aquifer (SSA)<sup>1</sup>?**

☒ No → Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination, such as a map of your project (or jurisdiction, if appropriate) in relation to the nearest SSA and its source area.

☐ Yes → Continue to Question 3.

**3. Does your region have a memorandum of understanding (MOU) or other working agreement with EPA for HUD projects impacting a sole source aquifer?**

Contact your Field or Regional Environmental Officer or visit the HUD webpage at the link above to determine if an MOU or agreement exists in your area.

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<sup>1</sup> A sole source aquifer is defined as an aquifer that supplies at least 50 percent of the drinking water consumed in the area overlying the aquifer. This includes streamflow source areas, which are upstream areas of losing streams that flow into the recharge area.

☐ Yes → *Provide the MOU or agreement as part of your supporting documentation. Continue to Question 4.*

☐ No → *Continue to Question 5.*

**4. Does your MOU or working agreement exclude your project from further review?**

☐ Yes → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide documentation used to make your determination and document where your project fits within the MOU or agreement.*

☐ No → *Continue to Question 5.*

**5. Will the proposed project contaminate the aquifer and create a significant hazard to public health?**

Consult with your Regional EPA Office. Your consultation request should include detailed information about your proposed project and its relationship to the aquifer and associated streamflow source area. EPA will also want to know about water, storm water and waste water at the proposed project. Follow your MOU or working agreement or contact your Regional EPA office for specific information you may need to provide. EPA may request additional information if impacts to the aquifer are questionable after this information is submitted for review.

☐ No → *Based on the response, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide your correspondence with the EPA and all documents used to make your determination.*

☐ Yes → *Work with EPA to develop mitigation measures. If mitigation measures are approved, attach correspondence with EPA and include the mitigation measures in your environmental review documents and project contracts. If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied. Continue to Question 6.*

**6. In order to continue with the project, any threat must be mitigated, and all mitigation must be approved by the EPA. Explain in detail the proposed measures that can be implemented to mitigate for the impact or effect, including the timeline for implementation.**

--

→ *Continue to the Worksheet Summary below. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

### **Worksheet Summary**

According the EPA Sole Source Aquifer Locations Map, accessed at <https://www.epa.gov/dwssa/map-sole-source-aquifer-locations>, there are no sole-source aquifers in or near the project site. The Campo/Cottonwood Creek Aquifer, approximately 103 miles southeast of the project site, is the nearest sole source aquifer. Therefore, the proposed project is in compliance with the Safe Water Drinking Act.

See Attachment 17.

## **ERR No. 14. Wetlands**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Wetlands (CEST and EA) – Partner

<https://www.hudexchange.info/environmental-review/wetlands-protection>

**1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building’s footprint, or ground disturbance?**

The term "new construction" includes draining, dredging, channelizing, filling, diking, impounding, and related activities and construction of any structures or facilities.

☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

☒ Yes → *Continue to Question 2.*

**2. Will the new construction or other ground disturbance impact a wetland as defined in E.O. 11990?**

☒ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide a map or any other relevant documentation to explain your determination.*

☐ Yes → *Work with HUD or the RE to assist with the 8-Step Process.* *Continue to Question 3.*

**3. Does Section 55.12 state that the 8-Step Process is not required?**

☐ No, the 8-Step Process applies.

This project will require mitigation and may require elevating structure or structures. See the link to the HUD Exchange above for information on HUD’s elevation requirements.

→ *Work with the RE/HUD to assist with the 8-Step Process. Continue to Worksheet Summary.*

☐ 5-Step Process is applicable per 55.12(a).

**Provide the applicable citation at 24 CFR 55.12(a) here.**

[Click here to enter text.](#)

→ *Work with the RE/HUD to assist with the 5-Step Process. This project may require mitigation or alternations. Continue to Worksheet Summary.*

☐ 8-Step Process is inapplicable per 55.12(b).

**Provide the applicable citation at 24 CFR 55.12(b) here.**

[Click here to enter text.](#)

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.*



☐ 8-Step Process is inapplicable per 55.12(c).

**Provide the applicable citation at 24 CFR 55.12(c) here.**

Click here to enter text.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to Worksheet Summary.*

### **Worksheet Summary**

According to the National Wetlands Inventory map regulated by the U.S. Fish and Wildlife Service and accessible at <https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper>, there are no wetlands on the project site. The closest wetland feature is a drainage ditch, approximately 0.32 miles southwest of the project site that flows south and drains into Carbon Creek, about 0.38 miles southeast of the project site. No settling ponds, lagoons, surface impoundments, wetlands or natural catch basins were observed on the project site during the site reconnaissance completed as part of the Phase I ESA. As a result, the proposed project is in compliance with Executive Order 11990.

See Attachment 17.

## **ERR No. 15. Wild and Scenic Rivers**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Wild and Scenic Rivers (CEST and EA) – PARTNER

This Worksheet was designed to be used by those “Partners” (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

General requirements	Legislation	Regulation
The Wild and Scenic Rivers Act provides federal protection for certain free-flowing, wild, scenic and recreational rivers designated as components or potential components of the National Wild and Scenic Rivers System (NWSRS) from the effects of construction or development.	The Wild and Scenic Rivers Act (16 U.S.C. 1271-1287), particularly section 7(b) and (c) (16 U.S.C. 1278(b) and (c))	36 CFR Part 297
References		
<a href="https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers">https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers</a>		

### 1. Is your project within proximity of a NWSRS river as defined below?

**Wild & Scenic Rivers:** These rivers or river segments have been designated by Congress or by states (with the concurrence of the Secretary of the Interior) as wild, scenic, or recreational

**Study Rivers:** These rivers or river segments are being studied as a potential component of the Wild & Scenic River system.

**Nationwide Rivers Inventory (NRI):** The National Park Service has compiled and maintains the NRI, a register of river segments that potentially qualify as national wild, scenic, or recreational river areas

☒ No

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation used to make your determination, such as a map

*identifying the project site and its surrounding area or a list of rivers in your region in the Screen Summary at the conclusion of this screen.*

☐ Yes, the project is in proximity of a Nationwide Rivers Inventory (NRI) River.

→ *Continue to Question 2.*

**2. Could the project do *any* of the following?**

- Have a direct and adverse effect within Wild and Scenic River Boundaries,
- Invade the area or unreasonably diminish the river outside Wild and Scenic River Boundaries, or
- Have an adverse effect on the natural, cultural, and/or recreational values of a NRI segment.

Consultation with the appropriate federal/state/local/tribal Managing Agency(s) is required, pursuant to Section 7 of the Act, to determine if the proposed project may have an adverse effect on a Wild & Scenic River or a Study River and, if so, to determine the appropriate avoidance or mitigation measures.

Note: Concurrence may be assumed if the Managing Agency does not respond within 30 days; however, you are still obligated to avoid or mitigate adverse effects on the rivers identified in the NWSRS

☐ No, the Managing Agency has concurred that the proposed project will not alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Provide documentation of the consultation (including the Managing Agency's concurrence) and any other documentation used to make your determination.*

☐ Yes, the Managing Agency was consulted and the proposed project may alter, directly, or indirectly, any of the characteristics that qualifies or potentially qualifies the river for inclusion in the NWSRS.

→ *The RE/HUD must work with the Managing Agency to identify mitigation measures to mitigate the impact or effect of the project on the river.*

**Worksheet Summary**

According to the EPA's NEPAassist mapping tool, the project site does not contain any rivers protected under the Wild and Scenic Rivers Act. The closest protected waterway is the Deep Creek River, approximately 60 miles northeast of the project site. Therefore, the proposed project is in compliance with Executive Order 11990.

See Attachment 18.

## **ERR No. 16. Environmental Justice**



U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT  
WASHINGTON, DC 20410-1000

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## Environmental Justice (CEST and EA) – PARTNER

<https://www.hudexchange.info/environmental-review/environmental-justice>

**HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.**

**1. Were any adverse environmental impacts identified in any other compliance review portion of this project’s total environmental review?**

☒ Yes → *Continue to Question 2.*

☐ No → *If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

**2. Were these adverse environmental impacts disproportionately high for low-income and/or minority communities?**

☐ Yes

**Explain:**

*Click here to enter text.*

→ *The RE/HUD must work with the affected low-income or minority community to decide what mitigation actions, if any, will be taken. Provide any supporting documentation.*

☒ No

**Explain:**

The project site currently vacant and does not possess any recognized environmental conditions or hazardous materials. The noise study for the proposed project indicated that the project site would experience high noise levels due to traffic along Melrose Street and Crowther Avenue nearby and the project’s proximity to an active railroad track about 30 feet to the south. However, implementation of mitigation measures would reduce adverse noise impacts at the project site to below HUD thresholds. In addition, since the project will be able to mitigate noise to a level within HUD thresholds and no impacts to other resources are expected to be significant, the project will seek a waiver of the EIS requirement for projects in unacceptable noise zones per HUD’s guidance on the waiver process for sites in the unacceptable noise zone. No disproportionate impacts to low income and/or minority communities would occur as a result of impacts from noise. In addition, with the implementation of mitigation measures required for the control of fugitive dust, erosion, and storm water at construction sites, no disproportionate impacts to low income and/or minority communities would occur as a result of impacts to air quality. As a result, potential adverse impacts would be avoided or reduced for all residents during the operational phase. Finally, with implementation of a mitigation measure

requiring radon testing onsite following completion of the new affordable housing development, no disproportionate impacts to low income and/or minority communities would occur as a result of radon. As a result, potential adverse impacts would be avoided or reduced for all residents during the operational phase.

*→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.*

### **Worksheet Summary**

The proposed project would involve the new construction of a 68-unit affordable housing community that would encompass four vacant lots along Baker Street in Placentia, CA. The parcels are located at the eastern terminus of Baker Street (cul-de-sac) and are situated on the north and south sides of the street. Of the 68 total apartments, 18 units would be reserved for as permanent supportive housing (PSH) for formerly homeless households while the remaining 49 units would be reserved for individuals and families earning between 40% to 60% of the area mean income (AMI). The PSH units would include eighteen (18) 1-bedroom apartments. The remaining non-PSH apartments would include ten (10) 1-bedroom units, twenty-(2) 2-bedroom units, and nineteen (19) 3-bedroom units.

Several studies have been conducted on the potential for environmental impacts related to the project. Some of these studies identified environmental concerns and mitigation measures:

- **Noise.** Noise levels at the project's exterior façade were measured to be 75.3 dBA DNL. Additionally, it is likely that passenger and freight rail traffic on the rail line to the south will increase in the future, so these noise levels can be expected to increase a few decibels (an increase of approximately 3 dB is likely a good conservative estimate). Thus, future combined (rail plus traffic) noise is estimated to be approximately 78 dBA DNL at the project's southern façade. An analysis of noise levels at the proposed outdoor amenity areas (in particular the 5th-floor sky deck) was conducted using Cadna/A®. Cadna/A® is a computer program for the calculation and assessment of noise levels from construction activities, industrial facilities and other noise sources. The program allows for input of all pertinent features (such as terrain or structures) that affect noise, resulting in a highly accurate estimate of existing and future noise levels. The resulting noise level at the worst-case outdoor amenity area (near the southwestern edge of the sky deck) was 64.7 dBA DNL. At the next-nearest outdoor amenity area with a rail noise exposure, at the 2nd-level podium deck, the exterior noise level would be approximately 58 dBA DNL. Thus, the estimated future exterior noise level at the outdoor amenity areas would not exceed the 65 dBA DNL noise standard.

While ambient outdoor noise levels at the sky deck and 2nd-level podium deck would be below the HUD exterior noise threshold, noise levels at the proposed project's southern façade would be in excess of the 75 dBA DNL threshold. In the future, exterior noise at the southern façade is anticipated to be about 78 dBA DNL due to increased freight transport along the railroad. Since exterior noise levels at the project's southern façade would be approximately 78 dBA DNL, the project's building shell (walls, doors, windows, and roof structure assemblies), would need to achieve a minimum of 33 dB noise reduction in order to meet the HUD requirement for interior noise reduction in order to meet the HUD requirement for interior living spaces. It would be the

responsibility of the developer, Mercy Housing, to implement mitigation into the project's building materials so that HUD's thresholds are met (**MM-NOI-1**). Prior to approval of building permits, the developer shall demonstrate that interior noise levels due to exterior noise sources will not exceed the applicable HUD standard of 45 dBA DNL. It is anticipated that compliance would be achieved by structural upgrades of wall assemblies, acoustically rated windows and doors, and air conditioning or equivalent forced air circulation to allow occupancy with closed windows. An acoustical study shall be prepared by a qualified acoustician (retained at the developer's expense) and include detailed noise reduction calculations accounting for room volumes, wall and window/door dimensions, and sound transmission class (STC) ratings (**MM-NOI-2**). Prior to issuance of the Certificate for Occupancy, the developer shall demonstrate that exterior and interior noise levels do not exceed the applicable HUD standards of 65 dBA DNL for outdoor amenity areas and 45 dBA DNL for interior living spaces by carrying out post-construction noise measurements. The noise measurements shall be conducted at a representative number of locations and rooms by a qualified acoustician. The measurements shall use ANSI Type 1 or Type 2 sound level meters and shall be carried out using methods consistent with the practice (i.e., pre-and post-measurement validation of instrument calibration, etc.) (**MM-NOI-3**). However, since the project will be able to mitigate noise to a level within HUD thresholds and no impacts to other resources are expected to be significant, the project will seek a waiver of the EIS requirement for projects in unacceptable noise zones per HUD's guidance on the waiver process for sites in the unacceptable noise zone.

- **Air Quality:** Construction activities such as grading may cause temporary adverse impacts to air quality from fugitive dust during construction of the residential community; however, with the implementation of air quality mitigation measures required for fugitive dust required by SCQAMD Rule 403 (**MM-AIR-1**), impacts to air quality would be minimized or avoided. Therefore, no disproportionate impacts to low income and/or minority communities would occur as a result of fugitive dust.
- **Radon:** In compliance with HUD's radon policy notice published in January 2024, indoor radon testing at the new affordable housing community will occur after construction is complete and before residents move in. If testing determines that indoor radon levels are or may be above 4pCi/L, then the Developer must document and implement a mitigation plan and let the County know that the threshold has been exceeded. The mitigation plan must identify the radon level onsite, describe the radon reduction system that will be installed, establish an ongoing maintenance plan, establish a reasonable timeframe for system implementation, and require post-installation testing by a licensed radon professional (**MM-TOX-1**).