U.S. Department of Housing and Urban Development
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Environmental Assessment
Determinations and Compliance Findings for HUD-Assisted Projects
24 CFR Part 58

This is a suggested format that may be used by Responsible Entities to document completion of an Environmental Assessment.

Project Information

Project Name:	Lincoln Avenue Apartments
Responsible Entity:	OC Housing & Community Development 1501 E. Saint Andrew Place, 1st 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 605 NE 21st Street, Suite 200 Portland, Oregon 97232 503.956.1444
Direct Comments to:	Suzanne Harder: Suzanne.harder@occr.ocgov.com

Project Location:
The proposed Lincoln Avenue Apartments (Project) would be located at 7101 Lincoln Avenue in the City of Buena Park, Orange County, California (refer to Figure 1, Project Location). The Project site consists of approximately 1.35 acres and is currently occupied by a single-story commercial building (approximately 21,600 square feet) and asphalt-paved drive and parking areas. The site is on Assessor's Parcel Number 135-192-50 and is currently zoned as Commercial Shopping (CS). The Project site underwent a zone change to the Specific Plan with a General Plan Amendment, which would make the project zoned for General Mixed Use (GMU)—its intended use and compliant with the City of Buena Park General Plan. The site is bordered by commercial properties to the west and east, and residential properties to the north. Lincoln Avenue and commercial properties, such as an O'Reilly Auto Parts, grocery store, and Lexington Courtyard Apartments border the southern boundary of the project site.

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:**
The proposed affordable housing Project is a partnership between Orange County (County), the City of Buena Park (City), and C&C Development Co., LLC (C&C Development). The proposed Project would involve demolition of the existing commercial building and associated parking lot and building a new affordable multi-family residential rental project with 55 family units, including 13 permanent supportive housing units; one manager's unit; and 82 parking spots. The units would be divided into 14 one-bedroom units, 23 two-bedroom units, and 18 three-bedroom units. Approximately 17 units would be reserved for tenants with an income of 30% of the area median income (AMI), nine units would be held for residents earning 40% AMI, 13 units would be reserved for tenants earning 60% AMI, and 15 units would be reserved for tenants earning 70% AMI. In addition, the proposed project would provide 13 Mental Health Services Act units, which would be serviced by the Orange County Health Care Agency. The proposed project would provide a transition to permanent housing for families that were formerly unhoused and families at-risk of becoming unhoused. On-site social services for residents would be provided by Life Steps.

Residents of the new affordable housing development would have access to on-site amenities, including a leasing office for professional on-site management, a community room, a computer room, a tot lot, a barbeque pavilion, interconnected pedestrian walkways, and active and passive green open spaces. The project site is near numerous community amenities, such as a grocery store, public transit, a pharmacy, a gas station, a discount store, and a diverse range of restaurants, among other businesses. The existing single-story building would be replaced by 4 three-story garden-style walkup buildings in a contemporary mission revival style with surface parking and tuck-under parking. Architecture for the proposed project would feature a mission revival theme, which has a historical, narrative, nostalgic, cultural, and environmental association with the surrounding area. Elements of this architectural style include stucco and tile roofs.

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.

Existing Conditions and Trends [24 CFR 58.40(a)]:
According to the Phase I Environmental Site Assessment (ESA) completed by Integrated Property Analysis Inc. in September 2023, the project site is currently occupied by a commercial building and associated parking lot. Historical photographs indicate that the site has been occupied by the same building since 1961. Review of historical photos for the project site from 1928 to 1954 show the area developed with agricultural uses and a few residential developments. Areas adjacent to the project site are developed with commercial and residential uses, as follows:

- East: Commercial (Tawheed Dawah Center and Ozen Sushi)
- West: Nexus Town Center Shopping Center (Harbor Freight Tools, Planet Fitness, and restaurants)
- North: Residential
- South: Lincoln Avenue and retail center (O'Reilly Auto Parts, grocery store, and restaurants)

Funding Information

Grant Number	HUD Program	Funding Amount
	13 Mainstream and/or Housing Choice Project-Based Vouchers	$4,770,480 (20-year estimated value)

Estimated Total HUD Funded Amount: $4,770,480

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]**:** $40,663,367

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.

Compliance Factors: Statutes, Executive Orders, and Regulations Listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance Determinations
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 and 58.6		
Airport Hazards 24 CFR Part 51 Subpart D	Yes ☐ No ☒	According to the U.S. Environmental Protection Agency's (EPA) NEPAssist tool (https://nepassisttool.epa.gov//nepamap.aspx), there are no military airports within 15,000 feet of the subject property, or civilian airports within 2,500 feet of the subject property. 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 3.2 miles northeast of the project site) and the Long Beach Airport (approximately 8.1 miles west of the site). The project is in compliance with airport hazards requirements (see **Attachment 1; ERR 1**).
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes ☐ No ☒	According to Coastal Barrier Resources System (CBRS) information (https://fwsprimary.wim.usgs.gov/v2/), 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 **Attachment 2; ERR 2**).
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance Reform Act of 1994 [42 USC 4001–4128 and 42 USC 5154a]	Yes ☐ No ☒	According to Federal Emergency Management Agency's Flood Insurance Rate Map No. 06059C0109J, effective December 3, 2009 (https://msc.fema.gov/portal/home), the project site is within unshaded Zone X (Area of Minimal Flood Hazard) (FEMA 2012). 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 (https://www.fema.gov/flood-insurance/work-with-nfip/community-status-book), the project site is in Community ID 060215#, which is a

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		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 3; ERR 3**).
Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes ☒ No ☐	The proposed project falls under the jurisdiction of the South Coast Air Quality Management District (SCAQMD) within the South Coast Air Basin. The SCAQMD, according to the U.S. Environmental Protection Agency (EPA), is currently in a nonattainment zone for federal ozone (8-hour ozone), ozone (1-hour ozone), and particulate matter from greenhouse gases (fine particulate matter [$PM_{2.5}$]). Federal ozone in Orange County has been classified as extreme, and $PM_{2.5}$ has been classified as moderate (EPA 2022a). According to NEPAssist, which uses the EPA's Office of Air and Radiation data, the SCAQMD is in a maintenance zone for coarse particulate matter (PM_{10}), carbon monoxide (CO), and nitrogen dioxide (NO_2). The SCAQMD 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 national and ambient air quality standards. State Implementation Plan guidelines require the proposed project to keep its criteria pollutant emissions below SCAQMD's significance thresholds (SCAQMD 2019). The project site's location close to public transportation is consistent with regional efforts to improve transit availability and would reduce the level of emissions ($PM_{2.5}$) associated with

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		motor vehicle travel. By developing affordable housing consistent with the growth anticipated by the General 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. Air quality at the project site could be negatively impacted by fugitive dust (PM_{10}) and other particulate air pollutants ($PM_{2.5}$) released during construction-related activities, such as land clearing and grading. Exhaust emissions (oxides of nitrogen [NOx] 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 **[MM]-AIR-1**; see section below for all mitigation measures). The California Emissions Estimator Model (CalEEMod) was used to estimate annual criteria air pollutant emissions during the construction and operational phases for the proposed project. Pollutant estimates, including for $PM_{2.5}$, PM_{10}, NOx, volatile organic compounds, and CO, found that all would be below de minimis thresholds during the construction and operational phases. Estimated annual construction emissions for the proposed project, assuming construction would occur in 2023–2024, is approximately 291.7 metric tons (30-year amortized emissions would reduce this to 9.72 metric tons). Estimated annual emissions

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		during the operational phase is approximately 414.08 metric tons (30-year amortized emissions would reduce this to 9.72 metric tons). Daily emissions from the proposed project would not exceed the SCAQMD's regional construction or operation emissions thresholds (see **Attachment 4; ERR 4**).
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes ☐ No ☒	According to the California Coastal Commission's Coastal Zone boundary maps (https://www.coastal.ca.gov/maps/czb/), 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 **Attachment 5; ERR 5**).
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes ☒ No ☐	A Phase I Environmental Site Assessment (ESA) conducted by Integrated Property Analysis Inc. (IPA) in September 2023 found no recognized environmental conditions, historical recognized environmental conditions, or controlled recognized environmental conditions on the project site. No hazardous substances or petroleum products were observed on site. Underground storage tanks and aboveground storage tanks were not observed on the project site. No vapor mitigation concerns were identified. Review of the EPA's Radon Map for Orange County, California, indicated that the project site is in Zone 3, areas with a predicted average indoor radon screening level less than 2 pCi/L. Therefore, no further action is recommended with regard to radon levels on site. Assessment of asbestos-containing materials (ACMs) and lead-based paint (LBP) was not included in the scope of the Phase I ESA completed by IPA. The potential for ACMs and LBP on site was assessed by Barr & Clark

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		Independent Environmental Testing (Barr & Clark) in two inspection reports completed in October 2019. Asbestos sampling was patterned after the Asbestos School Hazard Emergency Response Act (40 CFR 763 Subpart E). Physical bulk samples were collected from the project site and analyzed for ACM by an independent environmental laboratory. Asbestos was detected in samples of construction materials, including roofing mastic, flooring mastic, mirror mastic, and cement pipes. ACM identified during the site visit was in good condition except for the flooring mastic, which was damaged. No further action is required for the ACMs found in good condition because they present minimal risk for asbestos exposure. However, ACMs in damaged condition present a risk for asbestos exposure. The report recommends that all damaged and/or significantly damaged asbestos-containing construction materials be removed following SCAQMD Rule 1403 Procedure 5 (**MM-TOX-1**). An asbestos abatement contractor registered with the Division of Occupational Safety and Health must perform any work that disturbs these materials. Lead-based paints were sampled using an RMD LPA-1 XRF (x-ray fluorescence) spectrum analyzer instrument. Testing was completed according to the inspection protocol in Chapter 7 of HUD's Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. LBP thresholds for action in the Inspection Report were obtained from HUD/EPA ordinance 24 CFR 35.86 and 40 CFR 745.103. Throughout the subject property, several of the painted samples tested indicated the presence of LBP at or above the action level. The report recommends that the results of the LBP inspection be provided to any individuals that may disturb the painted surfaces at the

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		project site. Additionally, professionals who have experience working with LBPs should perform the work. The report provides additional recommendations for LBP removal/replacement and creation of an operations and management plan (see the Mitigation Measures section at the end of this document) (**MM-TOX-2**) (see **Attachments 6 and 7; ERR 6**).
Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402	Yes ☐ No ☒	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 (https://ipac.ecosphere.fws.gov/) identified seven threatened or endangered species potentially occurring on the project site, as follows (USFWS 2020a): **Mammals:** Pacific pocket mouse (*Perognathus longimembris pacificus*) **Birds:** California least tern (*Sterna antillarum browni*), coastal California gnatcatcher (*Polioptila californica californica*), western snowy plover (*Charadrius nivosus nivosus*) **Flowering Plants:** Salt marsh bird's-beak (*Cordylanthus maritimus ssp.*), Ventura marsh milk-vetch (*Astragalus pycnostachyus* var.) **Insects:** Monarch butterfly (*Danaus plexippus*) As stated in the IpaC report and confirmed through NEPAssist mapping of the project site, although the general habitat ranges of these 17 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

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		of on-site 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 **Attachment 8; ERR 7**).
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes ☐ No ☒	Explosive or flammable hazardous materials would not be present at the project site, which would provide 55 affordable housing units including one manager's unit. The Phase I ESA conducted by IPA did not identify any hazardous materials or petroleum on the project site. A search of the California Environmental Protection Agency's (CalEPA) website for aboveground petroleum storage and chemical storage sites was also completed to identify aboveground flammable materials storage within a 1-mile radius of the project site. There were no aboveground storage tanks identified in the CalEPA review. However, 13 sites within a 1-mile radius were identified as having chemicals stored on site (CalEPA 2022). HUD's Acceptable Separation Distance (ASD) Assessment Tool was used to calculate the minimum separation distance between the project site and the CalEPA sites. 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 explosive or flammable hazards (see **Attachment 9; ERR 8**).
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes ☐ No ☒	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 and has a General Plan land use designation of Commercial Shopping (CS) . The immediate neighborhood is a mixture of residential, commercial retail, and restaurant uses (DOC 2016). Because the proposed project

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		would be on previously disturbed land, it would not threaten existing farmlands. Therefore, the proposed project complies with the Farmland Protection Policy Act (see **Attachment 10; ERR 9**).
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes ☐ No ☒	According to Federal Emergency Management Agency's Flood Insurance Rate Map No. 06059C0109J, effective on December 3, 2009 (https://msc.fema.gov/portal/home), the project site is within Zone X (Area of Minimal Flood Hazard) (FEMA 2012). 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 (see **Attachment 3; ERR 10**).
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes ☒ No ☐	The California State Historic Preservation Office (SHPO) was consulted in November 2022 to identify the presence of any known historical or cultural resources on the project site. After a waiting period of approximately 6 weeks, SHPO responded to Orange County (County) with an email stating that, due to the high number of incoming project requests, they would not be able to respond to the County's request in a timely manner. 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. As described in **MM-CUL-1**, 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 construction ground-disturbing activities. There are no federally recognized tribes culturally affiliated with the project site, and there are no historic resources on site. Therefore,

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		the proposed project is in compliance with the National Historic Preservation Act (see **Attachment 11; ERR 11**).
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes ☒ No ☐	**Construction Noise.** A temporary increase in noise levels would be expected during the renovation and construction phase of the proposed project. Noise would be generated by construction equipment and the delivery of materials, among other activities. Increases in ambient noise levels would be restricted to daytime hours and would comply with applicable thresholds outlined in the Noise Element of Buena Park's 2035 General Plan (City of Buena Park, 2010). **Operational Noise.** The proposed project is not expected to have an adverse impact on ambient noise levels during the operational phase. The primary noise source in the project vicinity is motor vehicle traffic. The southern façades of the proposed residential units would face Lincoln Avenue. Additionally, the next-nearest arterial roadway (Knott Avenue) is approximately 600 feet to the west. The other nearby roads are minor "feeder" streets that would have a negligible contribution to the on-site noise environment. The nearest rail line is more than 3 miles away, and the nearest airports, Los Alamitos Army Airfield and Fullerton Municipal Airports, are each approximately 3 miles away. Thus, noise from rail and the airports would have a negligible contribution to the on-site noise environment. An initial noise analysis for the proposed project was calculated using the HUD DNL Electronic Assessment Tool. Results of the analysis indicated that worst-case exterior building façade noise levels would be approximately 70 A-weighted decibels (dBA) day/night average sound level (DNL), which is above HUD's threshold of 65 dBA DNL.

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		The Federal Highway Administration's Traffic Noise Model (TNM), version 2.5, was used to perform a more detailed noise analysis. The TNM prediction software calculates the noise levels based on specific information, including traffic volumes, vehicle fleet mix, speed limits, roadway geometrics, receiver elevations, intervening structures, and lateral distances between the noise receivers and the roadways. Details on the parameters and data used to run the TNM for the site are included in the Technical Noise Memorandum (**Attachment 12**). The highest noise levels for the proposed project would occur at the first building row facing south and closest to Lincoln Avenue. Traffic noise levels at the building façade are predicted to be 68 dBA DNL at the first, second, and third floors, exceeding the HUD exterior noise standard of 65 dBA DNL by 3 dB at the façade of units nearest these roadways, putting these receivers in the "normally unacceptable" noise range. Traffic noise levels at the other residential buildings on site would be less than the HUD exterior noise standard of 65 dBA DNL and within the "normally acceptable" noise range. Noise levels at the outdoor common area on site would also be within the "normally acceptable" noise range. Typical new construction of multi-family homes with windows closed provides a minimum of 25 dB exterior-to-interior noise reduction. To help reduce indoor noise levels, residential units would be equipped with a forced-air heating, ventilation, and air conditioning (HVAC) unit that allows for a "windows closed" condition (i.e., windows do not need to be left open for ventilation) **(MM-NOI-1**). As such, the interiors of the proposed habitable rooms in the first building row with doors or windows facing south toward Lincoln Avenue are anticipated to have noise levels of approximately 43 dBA DNL

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		(i.e., 68 dBA exterior – 25 dBA attenuation = 43 dBA interior). Nonetheless, to ensure compliance with 24 CFR Part 51, Subpart B and ensure that the HUD noise standard of 45 dBA DNL is not exceeded, the detailed architectural design plans (when these are prepared) will provide **MM-NOI-2** to upgrade all windows and doors in the south-facing residential units of the first building row (i.e., the nearest residential units with doors or windows facing Lincoln Avenue) to a Sound Transmission Class (STC) rating of 30 or greater (see **Attachment 12; ERR 12**).
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424I; 40 CFR Part 149	Yes ☐ No ☒	The EPA's Map of Sole Source Aquifer Locations (https://www.epa.gov/dwssa/map-sole-source-aquifer-locations) was used to identify sole-source aquifers in the vicinity of the project site (EPA 2022b). There are no sole-source aquifers in California (see **Attachment 13; ERR 13**). The proposed project is in compliance with the Safe Drinking Water Act.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes ☐ No ☒	The U.S. Fish and Wildlife Service's National Wetland Inventory mapper (https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper) was used to identify wetlands on or near the project site. There are no wetlands on the project site (see **Attachment 14; ERR 14**). The closest wetland is a freshwater pond approximately 2.62 miles northeast of the project site at the Dad Miller Golf Course (USFWS 2020b). The proposed project is in compliance with Executive Order 11990.
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes ☐ No ☒	The National Park Service's Wild and Scenic Rivers interactive map (https://www.nps.gov/orgs/1912/plan-your-visit.htm) 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 (see **Attachment 15; ERR 15**). The

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		closest protected waterway is Deep Creek River, approximately 60 miles northeast of the project site (USNPS 2021). Therefore, the proposed project is in compliance with the Wild and Scenic Rivers Act.
ENVIRONMENTAL JUSTICE		
Environmental Justice Executive Order 12898	Yes ☐ No ☒	**Construction**: Adverse impacts to air quality and noise during project construction would be temporary and localized and would be avoided, reduced, or mitigated through incorporation of design features, compliance with applicable regulations and policies, and implementation of mitigation measures. Therefore, project construction would not have disproportionate adverse impacts to minority or low-income populations. **Operation**: Once constructed, the proposed project would provide 55 units of affordable housing to low-income occupants including one manager's unit. The EPA's 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. According to the demographic data obtained on EJScreen, which reflects American Census Society statistics collected from 2016 through 2020, the total population of Buena Park, California, is 2,805. Approximately 70.44% of Buena Park's population is non-white. Results of

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		the assessment indicate that the proposed project would not have any aggregate environmental justice issues based on the factors evaluated by the EJScreen tool. Six of the 11 EIs were lower in the project area compared to the state average. The subject property has values higher than the state average in the Particulate Matter, Diesel Particulate Matter, Lead Paint, Proximity to an RMP Facility, and Proximity to a Hazardous Waste Facility categories. The subject property's higher score in Lead Paint, Proximity to an RMP Facility, and Proximity to a Hazardous Waste Facility is due to the project site's location adjacent to sites identified by the Regulatory Records Review in the Phase I ESA for the generation of hazardous waste or as a leaking underground storage tank site. The listed sites include an auto parts store, a gas station, a tool store, and a dry cleaning business. Based on the current regulatory status and regulatory closure of the listed sites, none are expected to adversely impact the environmental integrity of the project site. Higher values for Particulate Matter and Diesel Particulate Matter at the project site could also be attributed to the site's close proximity to a gas station. As discussed in the Contamination and Toxic Substances section above, LBP was identified at the vacant building on site during an LBP survey in 2019. In addition, according to a review of historical photos for the project area included in the Phase I ESA, the residential homes north of the project site and the shopping center along the project site's western border were developed in the early 1960s and could contain LBPs. According to EJ Screen, the composite demographic index for People of Color, Low Income, Linguistically Isolated, Less Than High School Education, and Over Age 64 within 0.125 mile radius of the project site is 56%,

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		which is 12% higher than the state average of 44%. Unemployment for the City of Buena Park is only 2%. 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 Buena Park's low-income population by providing affordable housing to low-income, very low-income, and extremely low-income families (see **Attachment 16; ERR 16**).

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 proposed project 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. 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
LAND DEVELOPMENT		
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The project site is approximately 1.35 acres and contains one single-story commercial building and associated parking lot. The project lot is situated on Assessor's Parcel Number 135-192-50. The land was formerly zoned as Commercial Shopping (CS). However, the project site underwent a zone change to the Specific Plan with a General Plan Amendment that would make the land zoned for General Mixed Use (GMU)—its intended use and compliant with the City of Buena Park General Plan. The City of Buena Park has confirmed approval of the proposed zoning change per Resolution No. 14757 (see **Attachment 17**). Therefore, the proposed project would be in compliance with local land use and zoning designations.
Soil Suitability/ Slope/ Erosion/ Drainage/ Storm Water Runoff	3	**Soil Suitability.** The Phase I Environmental Site Assessment (ESA) determined that the soil type of the project site is Metz loamy sand, a moderately fine substratum. Soils on site are described as loamy sand, stratified sand to sandy clay loam, silty clay loam, and stratified sand to sandy clay loam to a depth of approximately 60 inches. According to the report, this soil is somewhat excessively drained and occurs on alluvial fans. **Slope and Drainage.** Slope measurements for the project site were obtained through review of the Los Alamitos, California, Topographic Quadrangle, published by the U.S. Geological Survey in 2018. According to this review, the site is at an elevation of approximately 68 feet above mean sea level, although elevations vary slightly across the property. The project site generally slopes toward the south. **Erosion and Stormwater Runoff.** Erosion due to stormwater runoff at the project site 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 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 (Phase I ESA, 2023). Water that enters the City of Buena Park's (City) storm drains flows through City rivers and ultimately ends up unfiltered in the Pacific Ocean (City of Buena Park, 2022c). The proposed project would comply with erosion-control measures during the construction phase to minimize erosion and stormwater pollution. Best management practices (BMPs) adopted from the Stormwater Quality Management Plan would be incorporated during and after the construction phase of the project (**MM-LAND-1** and **MM-LAND-2**). Other low-impact drainage BMPs would include maintaining existing drainage pathways and impervious

Environmental Assessment Factor	Impact Code	Impact Evaluation
LAND DEVELOPMENT		
		areas and retaining natural areas where possible. Runoff from the project site is not anticipated to exceed the capacity of stormwater drainage systems or contribute to stormwater pollution.
Hazards and Nuisances including Site Safety and Noise	3	**Hazardous Materials.** Explosive or flammable hazardous materials would not be present at the project site, which would provide 55 affordable housing units (including one manager's unit). The Phase I ESA conducted by IPA did not identify any hazardous materials or petroleum on the project site. **Site Safety.** 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 customers, employees, and residents. Although no site safety hazards or nuisances are present at the site, it is possible that during construction of the project, construction traffic, noise, dust, and vapor encroachment could be considered a nuisance to the construction crew or immediate neighbors. As discussed in the Air Quality, Soil Suitability, and Stormwater sections above, BMPs and mitigation measures would be implemented to prevent health and safety risks to construction workers and neighbors. **Noise.** A temporary increase in noise would occur during the construction phase of the proposed project. Increased noise levels would adhere to limits set by Orange County for construction impacts on noise-sensitive land uses. Noise increases would occur during daylight hours, with no adverse impacts anticipated. Operational noise sources would include project-generated traffic and recreational spaces. However, based on the relatively small size of the proposed project, only minimal increases in noise are expected. Operational noise would comply with the City's Noise Element (City of Buena Park, 2010). Orange County Noise Control Ordinances. As mentioned previously, the proposed project would require implementation of mitigation measures (**MM-NOI-1** and **MM-NOI-2**) to be compliant with HUD interior and exterior noise thresholds.
Energy Consumption	2	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.

Environmental Assessment Factor	Impact Code	Impact Evaluation
SOCIOECONOMIC		
Employment and Income Patterns	1	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.
Demographic Character Changes, Displacement	1	Because the proposed project would be built in an area adjacent to existing residential uses, the development would not adversely affect community character. The proposed project would feature a mission revival architecture consistent with the Southern California region. Overall, the proposed project would have a beneficial impact on the City of Buena Park because it would convert a commercial building into multi-family affordable housing units, adding to the City's housing stock, consistent with the City's Housing Element (City of Buena Park, 2022d). Therefore, the proposed project would not result in the displacement of existing businesses or residences in the area. Increasing affordable housing units supports the housing priorities detailed in the Buena Park Housing Element by creating accommodations for individuals experiencing homelessness. As a result, the proposed project would have a positive impact on community character while remaining compliant with existing land use designations and design.

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Educational and Cultural Facilities	2	Given the availability of educational institutions in the area, adverse impacts to schools are not anticipated. The project is near multiple educational facilities, as follows: • Centralia Elementary School, approximately 0.4 miles east of the project site • Danbrook Elementary School, approximately 0.4 miles south of the project site • Orangeview Junior High School, approximately 0.7 miles southwest of the project site • Western High School, approximately 0.7 miles southeast of the project site • Cypress College, approximately 1.2 miles southwest of the project site

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Commercial Facilities	2	No adverse impacts to surrounding commercial facilities are anticipated. The project site is bordered by residential and commercial land uses.
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. The project site is near numerous healthcare facilities, including the following: • West Anaheim Medical Center at 3033 W. Orange Avenue, Anaheim, CA 92804, approximately 1.6 miles southwest of the project site • Anaheim General Hospital at 3400 W. Ball Road, Anaheim, CA 92804, approximately 1.4 miles south of the project site • Garden Park Memorial Hospital at 21530 Pioneer Boulevard, Hawaiian Gardens, CA 90716, approximately 4.4 miles west of the project site • La Palma Intercommunity Hospital at 7901 Walker Street, La Palma, CA 90623, approximately 2.7 miles northwest of the project site • Family Choice Community Clinic at 9918 Katella Avenue, Anaheim, CA 92804, approximately 4.9 miles southwest of the project site
Solid Waste Disposal / Recycling	2	Solid waste disposal at the project site would be provided by EDCO Disposal, located at 6762 Stanton Avenue, Buena Park, CA 90621. EDCO has developed an extensive network of Material Recovery Facilities, Construction and Demolition Processing Facilities, Commingled Recycling Processing Centers, Recycling Buyback Centers, Household Hazardous Waste Collection Centers, and an Anaerobic Digestion Facility that are collectively designed to maximize recovery efforts. EDCO's combined permitted Southern California processing and transfer capacity is more than 3,000,000 tons per year. EDCO does not own any recycling facilities, but in 2020, it diverted 910,027 tons of trash from landfills. Considering the relatively small size of the proposed project and that EDCO processed less than one-third of its waste capacity in 2020, the proposed project is not anticipated to exceed the City's solid waste disposal and recycling capacity (EDCO 2022b). 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 EDCO daily. In addition, according to the EDCO 2020 sustainability webpage, EDCO operates two Mixed Construction Demolition and Inert Processing Facilities that process

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
		drywall, cardboard, lumber, metal, and rock and asphalt. All EDCO facilities exceed CALGreen Diversion requirements. EDCO collects waste from residential areas once a week and provides free curbside pickup of large and bulky items (EDCO 2022a). Additional information about acceptable items for pickup are provided on the company's website. Adverse impacts from solid waste disposal associated with the proposed project are not anticipated.
Waste Water / Sanitary Sewers	2	Wastewater and sewage generated by the proposed project during the operational phase would be serviced by the City of Buena Park. The City provides sewer collection services to a population of approximately 84,000 over 11 square miles, serving the majority of the City and small portions of adjacent cities. The sewage collected by the City drains to the Orange County Sanitation District's (OCSD) sewer system for treatment and ultimate disposal (City of Buena Park 2022a). According to the OCSD's Overview and Compliance 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). No additional sewage infrastructure would be required for the proposed project. Therefore, adverse impacts to wastewater systems and sanitary sewers servicing the project site are not anticipated.
Water Supply	2	The City's Water Division is responsible for providing clean, safe, quality drinking water to the project site. According to published utility department information for the City, reviewed during the Phase I ESA, the water supplied to the project site is within federal, state, and local drinking water quality standards. The City acquires its drinking water supply from two main sources, groundwater (approximately 70%) and imported water (approximately 30%). According to the City's website, groundwater is pumped from an aquifer beneath north Orange County, which is recharged daily with 100 million gallons of high-quality recycled water. Imported water originates as far away as the Rocky Mountains and the Sierra Nevada. Water is transported via the 441-mile California Aqueduct, which runs through the Central Valley from the Sacramento–San Joaquin Bay Delta to reservoirs in Southern California, and the 242-mile Colorado River Aqueduct through the Mojave Desert (City of Buena Park 2022b).

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
Public Safety - Police, Fire and Emergency Medical	2	The Buena Park Police Department provides law enforcement services to Buena Park. The Buena Park Police Department's offices are located at 6640 Beach Boulevard, Buena Park, CA 90622, approximately 3.1 miles north of the project site. The Orange County Fire Authority (OCFA) would provide emergency services to the project site. The OCFA provides rapid assistance for fire, emergency medical, and other hazardous situations to 23 cities in Orange County and all unincorporated areas. The OCFA protects more than 1,984,758 residents and has 77 fire stations located throughout Orange County (OCFA 2022). OCFA Station 63 is the closest fire station to the project site and is at 9120 Holder Street, Buena Park, CA 90620, approximately 0.8 miles west of the project site. OCFA Station 65, approximately 1.5 miles north of the project site at 7440 La Palma Avenue, Buena Park, CA 90620, could also provide emergency services. The proposed project would incrementally increase demand for police, fire, and emergency medical services by adding residences and businesses to the project site. However, the proposed project would constitute infill development, located within an urbanized area that already has access to services. The proposed project would be required to comply with all applicable codes for fire safety and emergency access. Given the foregoing, the project would not have adverse impacts on public safety.
Parks, Open Space and Recreation	2	The City has 11 parks encompassing 89.55 acres of recreational space, as well as a community gymnasium, community center, and events center. In addition, numerous regional park and open space facilities are near the City. Public recreational spaces in proximity to the project site include the following: • San Antonio Park at 8810 San Francisco Drive, Buena Park, CA 90620, approximately 1 mile southeast of the project site • San Marino Park at 8700 Hoffman Street, Buena Park, CA 90620, approximately 1.2 miles east of the project site • William Peak Park at 7225 El Dorado Drive, Buena Park, CA 90620, approximately 1.4 miles north of the project site • Twila Reid Park at 3100 West Orange Avenue, Anaheim, CA 92804, approximately 1.5 miles southeast of the project site • Oak Knoll Park at 9600 Graham Street, Cypress, CA 90630, approximately 2.1 miles southwest of the project site
Transportation and Accessibility	2	There are two bus stops adjacent to the project site at the intersection of Lincoln Avenue and Knott Avenue. The bus stop along Knott Avenue, approximately 0.2 miles east of the project site, is serviced by bus line 25. The bus stop along Lincoln Avenue,

Environmental Assessment Factor	Impact Code	Impact Evaluation
COMMUNITY FACILITIES AND SERVICES		
		approximately 0.1 miles south of the project site, is serviced by bus line 42. 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 limited parking and traffic. These bus routes could take residents to stores, libraries, and other amenities near the proposed project. Because the proposed project would have 82 parking stalls for 55 units, there should be ample parking available to residents and visitors.

Environmental Assessment Factor	Impact Code	Impact Evaluation
NATURAL FEATURES		
Unique Natural Features, Water Resources	3	The project site, which is currently occupied by a commercial building and paved lot, 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 in result in the loss of any federally listed species. Mitigation measures employing BMPs would be required during and after construction to minimize potential adverse contributions to stormwater pollution (**MM-LAND-1** and **MM-LAND-2**).
Vegetation, Wildlife	2	Although the proposed project is within the ranges of seven endangered or threatened species, none are likely to occur on site due to a lack of suitable habitat. According to NEPAssist mapping, the project site and surrounding properties are defined as Developed, at Medium to High intensities. 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 **Attachment 8**). There are currently no trees on site. Landscape plans include a mix of grasses, shrubs, and trees. Landscape planting design would conform to the City's Water Efficient Landscape Ordinance.
Other Factors		

Additional Studies Performed:

- *Phase I Environmental Site Assessment*, Prepared by Integrated Property Analysis Inc., September 2023.

- *Asbestos Inspection Report*, Prepared by Barr & Clark Independent Environmental Testing, October 2019.
- *Lead-Based Paint Inspection Report*, Prepared by Barr & Clark Independent Environmental Testing, October 2019.

Field Inspections:

- *Phase I Environmental Site Assessment*, Prepared by Integrated Property Analysis Inc., September 2023.
- *Asbestos Inspection Report*, Prepared by Barr & Clark Independent Environmental Testing, October 2019.
- *Lead-Based Paint Inspection Report*, Prepared by Barr & Clark Independent Environmental Testing, October 2019.

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

CalEPA (California Environmental Protection Agency). 2022. "CalEPA Regulated Site Portal." https://siteportal.calepa.ca.gov/nsite/map/results/filters.

CCC (California Coastal Commission). 2019. "Maps – Coastal Zone Boundary: Orange County." https://coastal.ca.gov/maps/czb/.

City of Buena Park 2010. "Buena Park's 2035 General Plan." Accessed November 2023. https://www.buenapark.com/doing_business/index.php.

City of Buena Park. 2022a. "Sewer Services Management." Accessed November 2022. https://www.buenapark.com/city_departments/public_works/utilities/sewer_services/sewer_services_management.php.

City of Buena Park. 2022b. "Sources of Water." Accessed November 2022. https://www.buenapark.com/city_departments/public_works/utilities/water/sources_of_water.php#:~:text=The%20City%20of%20Buena%20Park,30%25%20consists%20of%20imported%20water.

City of Buena Park. 2022c. "Stormwater/ Water Quality." Accessed November 2022. https://www.buenapark.com/city_departments/public_works/utilities/water/stormwater___water_quality.php.

City of Buena Park. 2022d. *Buena Park 2021–2029 Housing Element*. Accessed November 2023. https://cms7files1.revize.com/buenaparkca/Document_center/City%20Departments/Community%20development/Planning%20Division/2021%20Housing%20Element%20Update/COMPLETED%20Buena%20Park%202021%202029%20Housing%20Element%20Appendices.pdf

DOC (California Department of Conservation). 2016. California Important Farmland Finder. https://maps.conservation.ca.gov/DLRP/CIFF/.

EDCO. 2022a. “Residential Services.” Accessed November 2022. https://buena-park.edcodisposal.com/residential-waste-services/curbside-pickup/bulky-item-pickup/.

EDCO. 2022b. “Resource Center: Sustainability.” Accessed November 2022. https://buena-park.edcodisposal.com/resource-center/sustainability/.

EPA NEPAssist. 2022. Accessed November 2022. https://nepassisttool.epa.gov/nepassist/nepamap.aspx.

EPA (U.S. Environmental Protection Agency). 2022a. “Current Nonattainment Counties for all Criteria Pollutants.” November 2022. https://www3.epa.gov/airquality/greenbook/ancl.html.

EPA. 2022b. “Sole Source Aquifers for Drinking Water.” Last updated January 2022. Accessed November 2022. https://www.epa.gov/dwssa.

FEMA (Federal Emergency Management Agency). 2012. “FEMA Flood Map Service Center: Search By Address.” Accessed November 2022. https://msc.fema.gov/portal/search#searchresultsanchor.

OCSD (Orange County Sanitation District). 2022. “District Overview and Compliance.” Accessed November 2022. https://www.ocsan.gov/home/showpublisheddocument/10331/635102622226630000#:~:text=The%20treated%20wastewater%20is%20discharged,the%20Orange%20County%20Water%20District%20.

Orange County Fire Authority. 2022. “Member Cities.” Accessed November 2022. https://ocfa.org/AboutUs/PartnerCities.aspx.

SCAQMD (South Coast Air Quality Management District). 2005. “Rule 403: Fugitive Dust.” As amended through June 3, 2005. https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403.pdf?sfvrsn=4.

SCAQMD. 2019. “South Coast AQMD Air Quality Significance Thresholds.” April 2019. Accessed November 2022. http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.

USFWS (U.S. Fish and Wildlife Service). 2019. “Coastal Barrier Resources System Mapper.” Updated July 31, 2019. Accessed November 2022. https://www.fws.gov/cbra/maps/Mapper.html.

USFWS. 2020a. “Information for Planning and Consultation (IPaC).” Accessed November 2022. https://ipac.ecosphere.fws.gov/location/index.

USFWS. 2020b. “National Wetlands Inventory, Surface Waters and Wetlands Map.” Accessed November 2022. https://www.fws.gov/wetlands/data/mapper.html.

USNPS (U.S. National Park Service). 2021. “Interactive map of NPS Wild and Scenic Rivers.” Accessed November 2022. https://nps.maps.arcgis.com/apps/View/index.html?appid=ff42a57d0aae43c49a88daee0e353142.

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 November 16, 2023 and concluding on December 4, 2023.

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 site's General Plan land use and zoning designations, and would be near existing transit services. 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. C&C Development 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, 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:
C&C Development is proposing redevelopment of an existing commercial building and paved lot into an affordable housing community. The project would consist of 55 affordable housing units with one manager's unit. 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)]:

Summarize below all mitigation measures adopted by the Responsible Entity to reduce, avoid, or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements, and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

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.

Contamination and Toxic Substances

MM-TOX-1 Additional bulk sampling of materials for asbestos shall be necessary if potential variations in building materials are identified during renovation or demolition activities.

Asbestos-Containing Materials in Damaged or Significantly Damaged Condition: These materials present the greatest risk for asbestos exposure. All damaged and/or significantly damaged asbestos-containing construction materials shall be removed following South Coast Air Quality Management District Rule 1403 Procedure 5. An asbestos abatement contractor registered with the Division of Occupational Safety and Health must perform any work that disturbs these materials.

Asbestos-Containing Materials in Good Condition: No action is recommended for these materials. Asbestos-containing materials that are maintained in good condition present minimal risk for asbestos exposure.

MM-TOX-2 The following are mitigation measures from the Lead-Based Paint Report:

- The results of the lead-based paint (LBP) inspection shall be provided to any individuals who may disturb painted surfaces. It is encouraged to use professionals who have experience working with LBP.
- If renovation is scheduled in the near future (less than 3 months), all lead-painted components that have been previously targeted for replacement shall be replaced using "lead safe" containment and work practices.
- All components that have been identified with defective lead paint shall have the paint repaired as soon as possible. Any paint repair shall be done using "lead safe" containment, work practices, and clean-up techniques.
- All components with lead painted friction/impact surfaces shall be treated to minimize the friction or impact as necessary.
- Lead-painted components that have not been targeted for replacement shall either be considered for abatement (e.g., replacement, enclosure, encapsulation) or included in an Operations & Management (O&M) Plan that will help to minimize exposures to lead hazards.
- All lead-painted surfaces that are not expected to be impacted in the near future (less than 3 months) shall also be included in the O&M Plan.

- In addition, the tenants or occupants of the dwelling shall be notified of the test results and instructed in actions that they may perform to keep the living areas "lead safe."

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 Abatement and Control

MM-NOI-1 Typical new construction of multi-family homes with windows closed provides a minimum of 25-decibel exterior to interior noise reduction. To help reduce indoor noise levels, residential units shall be equipped with a forced-air heating, ventilation, and air conditioning (HVAC) unit that allows for a "windows closed" condition (i.e., windows do not need to be left open for ventilation).

MM-NOI-2 All windows and doors in the south-facing residential units of the first building row (i.e., the nearest residential units with doors or windows facing Lincoln Avenue) shall be upgraded to a Sound Transmission Class (STC) rating of 30 or greater.

Unique Natural Features, Water Resources

MM-LAND-1 The proposed project shall include best management practices (BMPs) designed according to the guidance of the California Stormwater Quality Association Stormwater Best Management Practice Handbooks for Construction, for New Development/Redevelopment, and for Industrial and Commercial (or other similar source as approved by Orange County). Construction (temporary) BMPs for the proposed project shall include hydroseeding, straw mulch, velocity dissipation devices, silt fencing, fiber rolls, storm drain inlet protection, wind erosion control, and stabilized construction entrances.

MM-LAND-2 Prior to construction commencing, the applicant shall provide evidence to Orange County of a Waste Discharge Identification number generated from the State Water Resources Control Board's Stormwater Multiple Application & Reports Tracking System. This

serves as the Regional Water Quality Control Board's approval or permit under the National Pollutant Discharge Elimination System construction stormwater quality permit.

Law, Authority, or Factor	Mitigation Measure

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: Suzanne Harder Date: 11/15/23

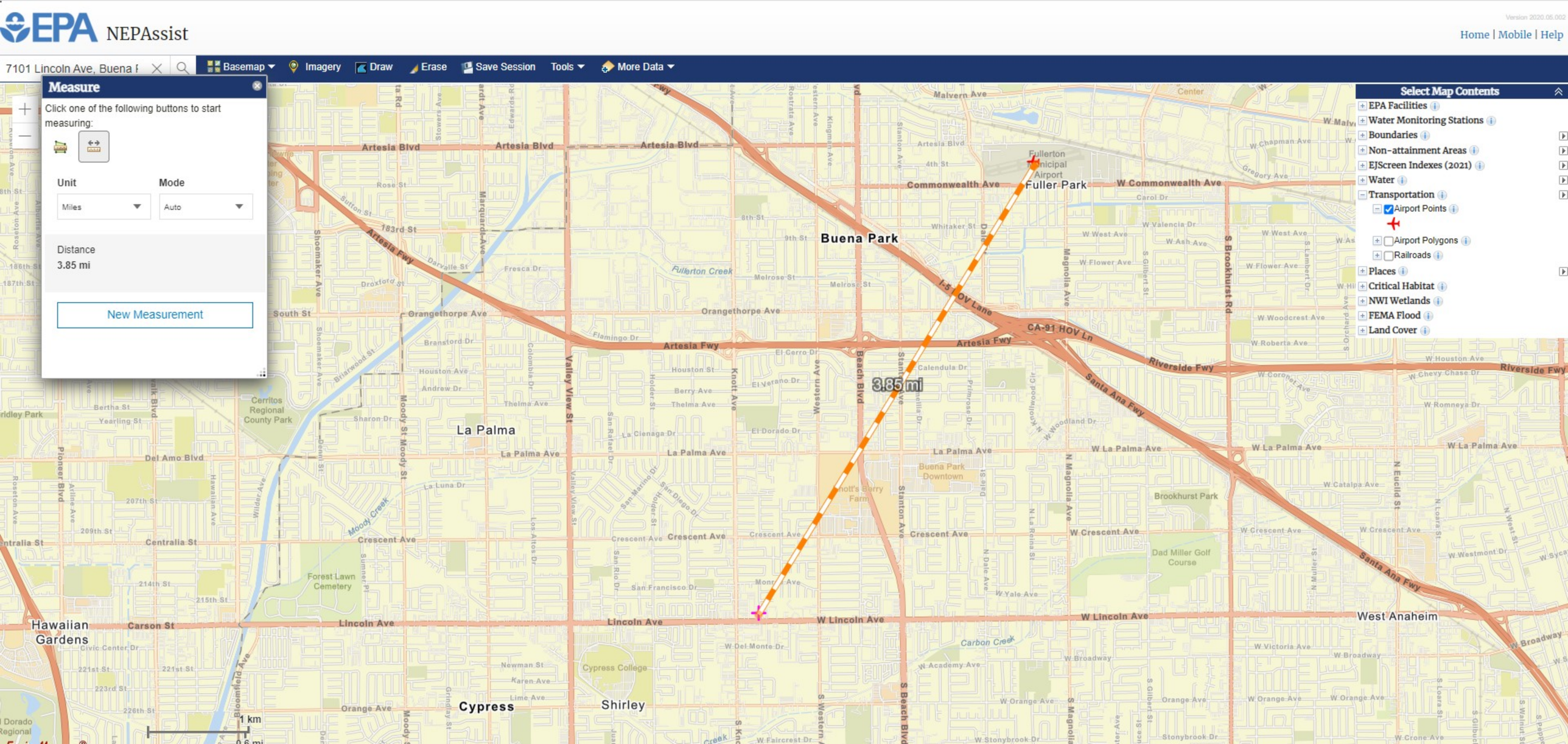
Name/Title/Organization: Suzanne Harder, Administrative Analyst, Orange County Housing and Community Development

Certifying Officer Signature: Julia Bidwell Date: 11/15/23

Name/Title: Julia Bidwell, Director 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).

Attachment 1. Airports Map


EPA NEPAssist
Version 2020.05.002
Home | Mobile | Help
7101 Lincoln Ave, Buena F
Basemap
Imagery
Draw
Erase
Save Session
Tools
More Data
Measure
Click one of the following buttons to start measuring:
Unit
Miles
Mode
Auto
Distance
3.85 mi
New Measurement
Select Map Contents
EPA Facilities
Water Monitoring Stations
Boundaries
Non-attainment Areas
EJScreen Indexes (2021)
Water
Transportation
Airport Points
Airport Polygons
Railroads
Places
Critical Habitat
NWI Wetlands
FEMA Flood
Land Cover
3.85 mi
Buena Park
La Palma
Cypress
Shirley
Fullerton Municipal Airport
Fuller Park
West Anaheim
Hawaiian Gardens
Cerritos Regional County Park
Forest Lawn Cemetery
Cypress College
Dad Miller Golf Course
Brookhurst Park
Buena Park Downtown
Knott's Berry Farm
Artesia Blvd
Commonwealth Ave
Orangethorpe Ave
Lincoln Ave
Crescent Ave
Artesia Fwy
I-5 HOV Lane
CA-91 HOV Ln
Riverside Fwy
Santa Ana Fwy
Beach Blvd
Valley View St
Magnolia Ave
Brookhurst Rd
Fullerton Creek
Moody Creek
Carbon Creek
1 km
0.6 mi

Attachment 2. Coastal Barrier Resources Map

Coastal Barrier Resources System Mapper

U.S Fish & Wildlife Service

ABOUT | FIND LOCATION | FIND CBRS UNIT | CBRS VALIDATION TOOL | PRINT

BASEMAPS >

MAP LAYERS >

CBRS Units

Click here to learn more about CBRS Units.

Measure

LEGEND

CBRS Units

- Otherwise Protected Area
- System Unit

1: 288,895
33.523 | -118.180

Attachment 3. FIRM National Flood Hazard Layer

National Flood Hazard Layer FIRMette

FEMA

118°0'50"W 33°50'12"N

118°0'12"W 33°49'43"N

Feet 1:6,000

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

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

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

N

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 12/12/2022 at 8:06 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 4. CalEEMod Air Quality Model

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Lincoln Avenue Apartments Project

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	89.00	Space	0.80	35,600.00	0
Apartments Mid Rise	55.00	Dwelling Unit	0.54	55,000.00	157

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage and units based on architectural concept designs. 55 unit mid rise apartment complex with 89 space parking lot on 1.34 acre site.

Construction Phase - Default

Off-road Equipment - Default

Trips and VMT - Rounded one way trips up to even number and added vendor trucks during site preparation and grading to account for dust suppression

On-road Fugitive Dust - Default

Grading - Default

Architectural Coating - Default

Vehicle Trips - Default

Road Dust - Default

Woodstoves - No woodstoves or fireplaces

Lincoln Avenue Apartments Project - Orange County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Consumer Products - Default

Area Coating - Default

Landscape Equipment - Default

Energy Use - Default

Water And Wastewater - Default

Solid Waste - Default

Fleet Mix - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Default

Demolition - Demolition of the vacant retail building and parking lots

Vehicle Emission Factors - Default

Vehicle Emission Factors - Default

Vehicle Emission Factors - Default

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	46.75	0.00
tblFireplaces	NumberNoFireplace	5.50	55.00
tblFireplaces	NumberWood	2.75	0.00
tblLandUse	LotAcreage	1.45	0.54
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	55.00	56.00
tblTripsAndVMT	WorkerTripNumber	11.00	12.00
tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblTripsAndVMT	WorkerTripNumber	13.00	14.00
tblWoodstoves	NumberCatalytic	2.75	0.00
tblWoodstoves	NumberNoncatalytic	2.75	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1252	0.9616	1.0724	2.2000e-003	0.0789	0.0410	0.1199	0.0221	0.0393	0.0614	0.0000	189.1329	189.1329	0.0282	3.4600e-003	190.8681
2024	0.2409	0.4650	0.5825	1.1700e-003	0.0270	0.0186	0.0456	7.2300e-003	0.0179	0.0251	0.0000	99.9915	99.9915	0.0140	1.5400e-003	100.8017
Maximum	**0.2409**	**0.9616**	**1.0724**	**2.2000e-003**	**0.0789**	**0.0410**	**0.1199**	**0.0221**	**0.0393**	**0.0614**	**0.0000**	**189.1329**	**189.1329**	**0.0282**	**3.4600e-003**	**190.8681**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.1252	0.9616	1.0724	2.2000e-003	0.0789	0.0410	0.1199	0.0221	0.0393	0.0614	0.0000	189.1327	189.1327	0.0282	3.4600e-003	190.8680
2024	0.2409	0.4650	0.5825	1.1700e-003	0.0270	0.0186	0.0456	7.2300e-003	0.0179	0.0251	0.0000	99.9915	99.9915	0.0140	1.5400e-003	100.8017
Maximum	**0.2409**	**0.9616**	**1.0724**	**2.2000e-003**	**0.0789**	**0.0410**	**0.1199**	**0.0221**	**0.0393**	**0.0614**	**0.0000**	**189.1327**	**189.1327**	**0.0282**	**3.4600e-003**	**190.8680**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**6-1-2023**	**8-31-2023**	0.4858	0.4858
2	**9-1-2023**	**11-30-2023**	0.4535	0.4535
3	**12-1-2023**	**2-29-2024**	0.4374	0.4374
4	**3-1-2024**	**5-31-2024**	0.4158	0.4158
		Highest	0.4858	0.4858

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2359	6.5400e-003	0.5681	3.0000e-005		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	0.9287	0.9287	8.9000e-004	0.0000	0.9511
Energy	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	72.3292	72.3292	3.9700e-003	1.0100e-003	72.7279
Mobile	0.1364	0.1553	1.4136	3.3100e-003	0.3661	2.2700e-003	0.3684	0.0977	2.1100e-003	0.0998	0.0000	305.7193	305.7193	0.0186	0.0128	310.0041
Waste						0.0000	0.0000		0.0000	0.0000	5.1357	0.0000	5.1357	0.3035	0.0000	12.7234
Water						0.0000	0.0000		0.0000	0.0000	1.1369	12.7262	13.8631	0.1178	2.8900e-003	17.6696
Total	**0.3756**	**0.1901**	**1.9937**	**3.5200e-003**	**0.3661**	**7.7000e-003**	**0.3738**	**0.0977**	**7.5400e-003**	**0.1053**	**6.2725**	**391.7034**	**397.9759**	**0.4448**	**0.0167**	**414.0761**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2359	6.5400e-003	0.5681	3.0000e-005		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	0.9287	0.9287	8.9000e-004	0.0000	0.9511
Energy	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	72.3292	72.3292	3.9700e-003	1.0100e-003	72.7279
Mobile	0.1364	0.1553	1.4136	3.3100e-003	0.3661	2.2700e-003	0.3684	0.0977	2.1100e-003	0.0998	0.0000	305.7193	305.7193	0.0186	0.0128	310.0041
Waste						0.0000	0.0000		0.0000	0.0000	5.1357	0.0000	5.1357	0.3035	0.0000	12.7234
Water						0.0000	0.0000		0.0000	0.0000	1.1369	12.7262	13.8631	0.1178	2.8900e-003	17.6696
Total	**0.3756**	**0.1901**	**1.9937**	**3.5200e-003**	**0.3661**	**7.7000e-003**	**0.3738**	**0.0977**	**7.5400e-003**	**0.1053**	**6.2725**	**391.7034**	**397.9759**	**0.4448**	**0.0167**	**414.0761**

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2023	6/28/2023	5	20	
2	Site Preparation	Site Preparation	6/29/2023	6/30/2023	5	2	
3	Grading	Grading	7/1/2023	7/6/2023	5	4	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Building Construction	Building Construction	7/7/2023	4/11/2024	5	200	
5	Paving	Paving	4/12/2024	4/25/2024	5	10	
6	Architectural Coating	Architectural Coating	4/26/2024	5/9/2024	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.8

Residential Indoor: 111,375; Residential Outdoor: 37,125; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 2,136 (Architectural Coating – sqft)

OffRoad Equipment

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	7	56.00	12.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	14.00	0.00	161.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	6.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	14.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0175	0.0000	0.0175	2.6400e-003	0.0000	2.6400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1432	0.1346	2.4000e-004		6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003	0.0000	21.0866	21.0866	5.3500e-003	0.0000	21.2202
Total	**0.0147**	**0.1432**	**0.1346**	**2.4000e-004**	**0.0175**	**6.7700e-003**	**0.0242**	**2.6400e-003**	**6.3300e-003**	**8.9700e-003**	**0.0000**	**21.0866**	**21.0866**	**5.3500e-003**	**0.0000**	**21.2202**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	0.0101	3.3000e-003	5.0000e-005	1.3800e-003	6.0000e-005	1.4400e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	4.6723	4.6723	4.7000e-004	7.5000e-004	4.9074
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.8000e-004	4.0700e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1686	1.1686	3.0000e-005	3.0000e-005	1.1777
Total	**5.6000e-004**	**0.0104**	**7.3700e-003**	**6.0000e-005**	**2.9200e-003**	**7.0000e-005**	**2.9800e-003**	**7.9000e-004**	**7.0000e-005**	**8.6000e-004**	**0.0000**	**5.8409**	**5.8409**	**5.0000e-004**	**7.8000e-004**	**6.0851**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0175	0.0000	0.0175	2.6400e-003	0.0000	2.6400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0147	0.1432	0.1346	2.4000e-004		6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003	0.0000	21.0865	21.0865	5.3500e-003	0.0000	21.2202
Total	**0.0147**	**0.1432**	**0.1346**	**2.4000e-004**	**0.0175**	**6.7700e-003**	**0.0242**	**2.6400e-003**	**6.3300e-003**	**8.9700e-003**	**0.0000**	**21.0865**	**21.0865**	**5.3500e-003**	**0.0000**	**21.2202**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.6000e-004	0.0101	3.3000e-003	5.0000e-005	1.3800e-003	6.0000e-005	1.4400e-003	3.8000e-004	6.0000e-005	4.4000e-004	0.0000	4.6723	4.6723	4.7000e-004	7.5000e-004	4.9074
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.8000e-004	4.0700e-003	1.0000e-005	1.5400e-003	1.0000e-005	1.5400e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.1686	1.1686	3.0000e-005	3.0000e-005	1.1777
Total	**5.6000e-004**	**0.0104**	**7.3700e-003**	**6.0000e-005**	**2.9200e-003**	**7.0000e-005**	**2.9800e-003**	**7.9000e-004**	**7.0000e-005**	**8.6000e-004**	**0.0000**	**5.8409**	**5.8409**	**5.0000e-004**	**7.8000e-004**	**6.0851**

3.3 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3000e-004	6.1900e-003	3.9200e-003	1.0000e-005		2.3000e-004	2.3000e-004		2.1000e-004	2.1000e-004	0.0000	0.8550	0.8550	2.8000e-004	0.0000	0.8619
Total	**5.3000e-004**	**6.1900e-003**	**3.9200e-003**	**1.0000e-005**	**5.3000e-004**	**2.3000e-004**	**7.6000e-004**	**6.0000e-005**	**2.1000e-004**	**2.7000e-004**	**0.0000**	**0.8550**	**0.8550**	**2.8000e-004**	**0.0000**	**0.8619**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	7.0000e-005	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0359	0.0359	0.0000	1.0000e-005	0.0374
Worker	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0501	0.0501	0.0000	0.0000	0.0505
Total	**2.0000e-005**	**8.0000e-005**	**2.0000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0859**	**0.0859**	**0.0000**	**1.0000e-005**	**0.0879**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3000e-004	6.1900e-003	3.9200e-003	1.0000e-005		2.3000e-004	2.3000e-004		2.1000e-004	2.1000e-004	0.0000	0.8550	0.8550	2.8000e-004	0.0000	0.8619
Total	**5.3000e-004**	**6.1900e-003**	**3.9200e-003**	**1.0000e-005**	**5.3000e-004**	**2.3000e-004**	**7.6000e-004**	**6.0000e-005**	**2.1000e-004**	**2.7000e-004**	**0.0000**	**0.8550**	**0.8550**	**2.8000e-004**	**0.0000**	**0.8619**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	7.0000e-005	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0359	0.0359	0.0000	1.0000e-005	0.0374
Worker	2.0000e-005	1.0000e-005	1.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0501	0.0501	0.0000	0.0000	0.0505
Total	**2.0000e-005**	**8.0000e-005**	**2.0000e-004**	**0.0000**	**8.0000e-005**	**0.0000**	**8.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0859**	**0.0859**	**0.0000**	**1.0000e-005**	**0.0879**

3.4 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6700e-003	0.0289	0.0174	4.0000e-005		1.2100e-003	1.2100e-003		1.1100e-003	1.1100e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	**2.6700e-003**	**0.0289**	**0.0174**	**4.0000e-005**	**0.0142**	**1.2100e-003**	**0.0154**	**6.8500e-003**	**1.1100e-003**	**7.9600e-003**	**0.0000**	**3.6208**	**3.6208**	**1.1700e-003**	**0.0000**	**3.6501**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.5000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0717	0.0717	0.0000	1.0000e-005	0.0749
Worker	6.0000e-005	4.0000e-005	5.8000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1669	0.1669	0.0000	0.0000	0.1682
Total	**6.0000e-005**	**1.9000e-004**	**6.4000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2386**	**0.2386**	**0.0000**	**1.0000e-005**	**0.2431**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0142	0.0000	0.0142	6.8500e-003	0.0000	6.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6700e-003	0.0289	0.0174	4.0000e-005		1.2100e-003	1.2100e-003		1.1100e-003	1.1100e-003	0.0000	3.6208	3.6208	1.1700e-003	0.0000	3.6501
Total	**2.6700e-003**	**0.0289**	**0.0174**	**4.0000e-005**	**0.0142**	**1.2100e-003**	**0.0154**	**6.8500e-003**	**1.1100e-003**	**7.9600e-003**	**0.0000**	**3.6208**	**3.6208**	**1.1700e-003**	**0.0000**	**3.6501**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	1.5000e-004	6.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0717	0.0717	0.0000	1.0000e-005	0.0749
Worker	6.0000e-005	4.0000e-005	5.8000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1669	0.1669	0.0000	0.0000	0.1682
Total	**6.0000e-005**	**1.9000e-004**	**6.4000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**7.0000e-005**	**0.0000**	**7.0000e-005**	**0.0000**	**0.2386**	**0.2386**	**0.0000**	**1.0000e-005**	**0.2431**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0960	0.7378	0.7945	1.3900e-003		0.0324	0.0324		0.0313	0.0313	0.0000	114.4075	114.4075	0.0194	0.0000	114.8931
Total	**0.0960**	**0.7378**	**0.7945**	**1.3900e-003**		**0.0324**	**0.0324**		**0.0313**	**0.0313**	**0.0000**	**114.4075**	**114.4075**	**0.0194**	**0.0000**	**114.8931**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-004	0.0278	0.0112	1.4000e-004	4.7600e-003	1.4000e-004	4.9000e-003	1.3700e-003	1.3000e-004	1.5000e-003	0.0000	13.5501	13.5501	8.0000e-004	1.9500e-003	14.1501
Worker	9.9600e-003	7.1200e-003	0.1026	3.2000e-004	0.0387	2.0000e-004	0.0389	0.0103	1.9000e-004	0.0105	0.0000	29.4476	29.4476	6.9000e-004	7.1000e-004	29.6767
Total	**0.0107**	**0.0349**	**0.1138**	**4.6000e-004**	**0.0435**	**3.4000e-004**	**0.0438**	**0.0117**	**3.2000e-004**	**0.0120**	**0.0000**	**42.9977**	**42.9977**	**1.4900e-003**	**2.6600e-003**	**43.8268**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0960	0.7378	0.7945	1.3900e-003		0.0324	0.0324		0.0313	0.0313	0.0000	114.4073	114.4073	0.0194	0.0000	114.8930
Total	**0.0960**	**0.7378**	**0.7945**	**1.3900e-003**		**0.0324**	**0.0324**		**0.0313**	**0.0313**	**0.0000**	**114.4073**	**114.4073**	**0.0194**	**0.0000**	**114.8930**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-004	0.0278	0.0112	1.4000e-004	4.7600e-003	1.4000e-004	4.9000e-003	1.3700e-003	1.3000e-004	1.5000e-003	0.0000	13.5501	13.5501	8.0000e-004	1.9500e-003	14.1501
Worker	9.9600e-003	7.1200e-003	0.1026	3.2000e-004	0.0387	2.0000e-004	0.0389	0.0103	1.9000e-004	0.0105	0.0000	29.4476	29.4476	6.9000e-004	7.1000e-004	29.6767
Total	**0.0107**	**0.0349**	**0.1138**	**4.6000e-004**	**0.0435**	**3.4000e-004**	**0.0438**	**0.0117**	**3.2000e-004**	**0.0120**	**0.0000**	**42.9977**	**42.9977**	**1.4900e-003**	**2.6600e-003**	**43.8268**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0525	0.4094	0.4631	8.2000e-004		0.0167	0.0167		0.0161	0.0161	0.0000	67.1962	67.1962	0.0112	0.0000	67.4759
Total	**0.0525**	**0.4094**	**0.4631**	**8.2000e-004**		**0.0167**	**0.0167**		**0.0161**	**0.0161**	**0.0000**	**67.1962**	**67.1962**	**0.0112**	**0.0000**	**67.4759**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0163	6.5000e-003	8.0000e-005	2.8000e-003	8.0000e-005	2.8800e-003	8.1000e-004	8.0000e-005	8.9000e-004	0.0000	7.8347	7.8347	4.8000e-004	1.1300e-003	8.1833
Worker	5.5000e-003	3.7500e-003	0.0561	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0400e-003	1.0000e-004	6.1400e-003	0.0000	16.7464	16.7464	3.7000e-004	3.9000e-004	16.8719
Total	**5.9300e-003**	**0.0200**	**0.0626**	**2.6000e-004**	**0.0256**	**1.9000e-004**	**0.0257**	**6.8500e-003**	**1.8000e-004**	**7.0300e-003**	**0.0000**	**24.5810**	**24.5810**	**8.5000e-004**	**1.5200e-003**	**25.0551**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0525	0.4094	0.4631	8.2000e-004		0.0167	0.0167		0.0161	0.0161	0.0000	67.1961	67.1961	0.0112	0.0000	67.4759
Total	**0.0525**	**0.4094**	**0.4631**	**8.2000e-004**		**0.0167**	**0.0167**		**0.0161**	**0.0161**	**0.0000**	**67.1961**	**67.1961**	**0.0112**	**0.0000**	**67.4759**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.3000e-004	0.0163	6.5000e-003	8.0000e-005	2.8000e-003	8.0000e-005	2.8800e-003	8.1000e-004	8.0000e-005	8.9000e-004	0.0000	7.8347	7.8347	4.8000e-004	1.1300e-003	8.1833
Worker	5.5000e-003	3.7500e-003	0.0561	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0400e-003	1.0000e-004	6.1400e-003	0.0000	16.7464	16.7464	3.7000e-004	3.9000e-004	16.8719
Total	**5.9300e-003**	**0.0200**	**0.0626**	**2.6000e-004**	**0.0256**	**1.9000e-004**	**0.0257**	**6.8500e-003**	**1.8000e-004**	**7.0300e-003**	**0.0000**	**24.5810**	**24.5810**	**8.5000e-004**	**1.5200e-003**	**25.0551**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0900e-003	0.0293	0.0441	7.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	5.8870	5.8870	1.8700e-003	0.0000	5.9337
Paving	1.0500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.1400e-003**	**0.0293**	**0.0441**	**7.0000e-005**		**1.4100e-003**	**1.4100e-003**		**1.3000e-003**	**1.3000e-003**	**0.0000**	**5.8870**	**5.8870**	**1.8700e-003**	**0.0000**	**5.9337**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.9000e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5658	0.5658	1.0000e-005	1.0000e-005	0.5700
Total	**1.9000e-004**	**1.3000e-004**	**1.9000e-003**	**1.0000e-005**	**7.7000e-004**	**0.0000**	**7.7000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.5658**	**0.5658**	**1.0000e-005**	**1.0000e-005**	**0.5700**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.0900e-003	0.0293	0.0441	7.0000e-005		1.4100e-003	1.4100e-003		1.3000e-003	1.3000e-003	0.0000	5.8870	5.8870	1.8700e-003	0.0000	5.9337
Paving	1.0500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**4.1400e-003**	**0.0293**	**0.0441**	**7.0000e-005**		**1.4100e-003**	**1.4100e-003**		**1.3000e-003**	**1.3000e-003**	**0.0000**	**5.8870**	**5.8870**	**1.8700e-003**	**0.0000**	**5.9337**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.9000e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.5658	0.5658	1.0000e-005	1.0000e-005	0.5700
Total	**1.9000e-004**	**1.3000e-004**	**1.9000e-003**	**1.0000e-005**	**7.7000e-004**	**0.0000**	**7.7000e-004**	**2.0000e-004**	**0.0000**	**2.1000e-004**	**0.0000**	**0.5658**	**0.5658**	**1.0000e-005**	**1.0000e-005**	**0.5700**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1770					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.1779**	**6.0900e-003**	**9.0500e-003**	**1.0000e-005**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.6300e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4849	0.4849	1.0000e-005	1.0000e-005	0.4886
Total	**1.6000e-004**	**1.1000e-004**	**1.6300e-003**	**1.0000e-005**	**6.6000e-004**	**0.0000**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.4849**	**0.4849**	**1.0000e-005**	**1.0000e-005**	**0.4886**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1770					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.0000e-004	6.0900e-003	9.0500e-003	1.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.1779**	**6.0900e-003**	**9.0500e-003**	**1.0000e-005**		**3.0000e-004**	**3.0000e-004**		**3.0000e-004**	**3.0000e-004**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.1000e-004	1.6300e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.4849	0.4849	1.0000e-005	1.0000e-005	0.4886
Total	**1.6000e-004**	**1.1000e-004**	**1.6300e-003**	**1.0000e-005**	**6.6000e-004**	**0.0000**	**6.6000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.4849**	**0.4849**	**1.0000e-005**	**1.0000e-005**	**0.4886**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1364	0.1553	1.4136	3.3100e-003	0.3661	2.2700e-003	0.3684	0.0977	2.1100e-003	0.0998	0.0000	305.7193	305.7193	0.0186	0.0128	310.0041
Unmitigated	0.1364	0.1553	1.4136	3.3100e-003	0.3661	2.2700e-003	0.3684	0.0977	2.1100e-003	0.0998	0.0000	305.7193	305.7193	0.0186	0.0128	310.0041

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	299.20	270.05	224.95	971,936	971,936
Parking Lot	0.00	0.00	0.00		
Total	299.20	270.05	224.95	971,936	971,936

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.546200	0.059546	0.185910	0.127866	0.024295	0.006605	0.014499	0.004906	0.000657	0.000381	0.024552	0.000713	0.003869
Parking Lot	0.546200	0.059546	0.185910	0.127866	0.024295	0.006605	0.014499	0.004906	0.000657	0.000381	0.024552	0.000713	0.003869

5.0 Energy Detail

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.6049	39.6049	3.3400e-003	4.1000e-004	39.8092
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	39.6049	39.6049	3.3400e-003	4.1000e-004	39.8092
NaturalGas Mitigated	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.7242	32.7242	6.3000e-004	6.0000e-004	32.9187
NaturalGas Unmitigated	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.7242	32.7242	6.3000e-004	6.0000e-004	32.9187

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	613229	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.7242	32.7242	6.3000e-004	6.0000e-004	32.9187
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.3100e-003**	**0.0283**	**0.0120**	**1.8000e-004**		**2.2800e-003**	**2.2800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**32.7242**	**32.7242**	**6.3000e-004**	**6.0000e-004**	**32.9187**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	613229	3.3100e-003	0.0283	0.0120	1.8000e-004		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	32.7242	32.7242	6.3000e-004	6.0000e-004	32.9187
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**3.3100e-003**	**0.0283**	**0.0120**	**1.8000e-004**		**2.2800e-003**	**2.2800e-003**		**2.2800e-003**	**2.2800e-003**	**0.0000**	**32.7242**	**32.7242**	**6.3000e-004**	**6.0000e-004**	**32.9187**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	210861	37.3952	3.1600e-003	3.8000e-004	37.5881
Parking Lot	12460	2.2097	1.9000e-004	2.0000e-005	2.2211
Total		**39.6049**	**3.3500e-003**	**4.0000e-004**	**39.8092**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	210861	37.3952	3.1600e-003	3.8000e-004	37.5881
Parking Lot	12460	2.2097	1.9000e-004	2.0000e-005	2.2211
Total		**39.6049**	**3.3500e-003**	**4.0000e-004**	**39.8092**

6.0 Area Detail

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2359	6.5400e-003	0.5681	3.0000e-005		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	0.9287	0.9287	8.9000e-004	0.0000	0.9511
Unmitigated	0.2359	6.5400e-003	0.5681	3.0000e-005		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	0.9287	0.9287	8.9000e-004	0.0000	0.9511

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0177					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2010					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0172	6.5400e-003	0.5681	3.0000e-005		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	0.9287	0.9287	8.9000e-004	0.0000	0.9511
Total	**0.2359**	**6.5400e-003**	**0.5681**	**3.0000e-005**		**3.1500e-003**	**3.1500e-003**		**3.1500e-003**	**3.1500e-003**	**0.0000**	**0.9287**	**0.9287**	**8.9000e-004**	**0.0000**	**0.9511**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0177					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2010					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0172	6.5400e-003	0.5681	3.0000e-005		3.1500e-003	3.1500e-003		3.1500e-003	3.1500e-003	0.0000	0.9287	0.9287	8.9000e-004	0.0000	0.9511
Total	**0.2359**	**6.5400e-003**	**0.5681**	**3.0000e-005**		**3.1500e-003**	**3.1500e-003**		**3.1500e-003**	**3.1500e-003**	**0.0000**	**0.9287**	**0.9287**	**8.9000e-004**	**0.0000**	**0.9511**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.8631	0.1178	2.8900e-003	17.6696
Unmitigated	13.8631	0.1178	2.8900e-003	17.6696

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.58347 / 2.25915	13.8631	0.1178	2.8900e-003	17.6696
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**13.8631**	**0.1178**	**2.8900e-003**	**17.6696**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.58347 / 2.25915	13.8631	0.1178	2.8900e-003	17.6696
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**13.8631**	**0.1178**	**2.8900e-003**	**17.6696**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.1357	0.3035	0.0000	12.7234
Unmitigated	5.1357	0.3035	0.0000	12.7234

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	25.3	5.1357	0.3035	0.0000	12.7234
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**5.1357**	**0.3035**	**0.0000**	**12.7234**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	25.3	5.1357	0.3035	0.0000	12.7234
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		**5.1357**	**0.3035**	**0.0000**	**12.7234**

9.0 Operational Offroad

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

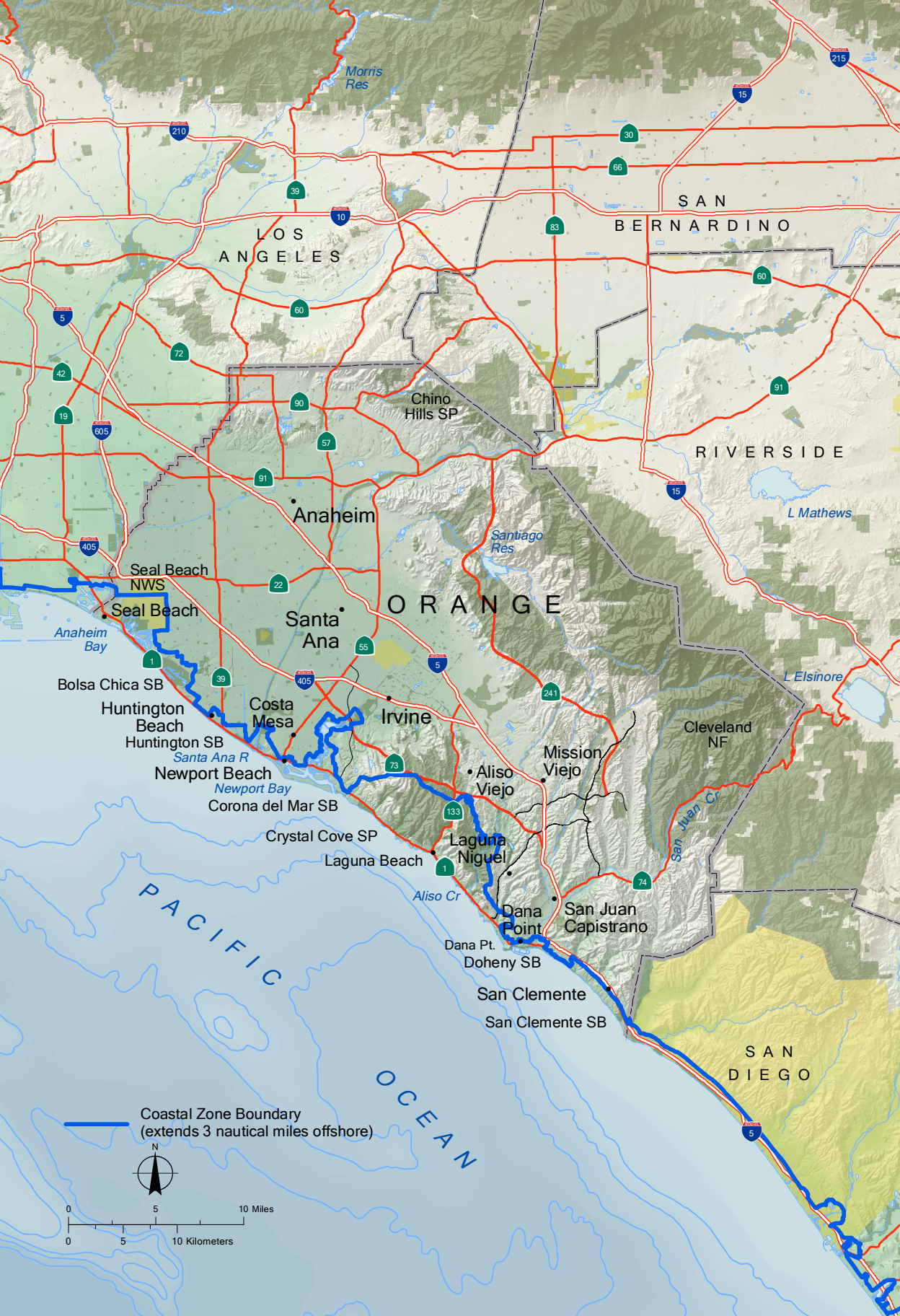
Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment 5. Coastal Zone Management Boundary


Morris Res
LOS ANGELES
SAN BERNARDINO
RIVERSIDE
ORANGE
SAN DIEGO
Chino Hills SP
Anaheim
Santiago Res
L Mathews
L Elsinore
Seal Beach NWS
Seal Beach
Anaheim Bay
Santa Ana
Bolsa Chica SB
Huntington Beach
Huntington SB
Costa Mesa
Irvine
Santa Ana R
Newport Beach
Newport Bay
Corona del Mar SB
Crystal Cove SP
Laguna Beach
Aliso Cr
Aliso Viejo
Mission Viejo
Laguna Niguel
Dana Point
Dana Pt.
Doheny SB
San Clemente
San Clemente SB
San Juan Capistrano
San Juan Cr
Cleveland NF
PACIFIC OCEAN
Coastal Zone Boundary
(extends 3 nautical miles offshore)
N
0 5 10 Miles
0 5 10 Kilometers

Attachment 6. Asbestos Inspection Report

BARR & CLARK
Independent Environmental Testing
Asbestos • Lead • Mold • Phase I

ASBESTOS INSPECTION REPORT

OF

COMMERCIAL BUILDING
7101 LINCOLN AVENUE
BUENA PARK, CA 90620

PROJECT NO. 3014888

OCTOBER 15, 2019

Prepared For:
C&C Development
14211 Yorba Street
Tustin, CA 92780

Inspected & Prepared By:

Matt Crochet
State of California
Certified Asbestos Consultant

Reviewed By:

Jeremy Nguyen
State of California
Certified Asbestos Consultant

TABLE OF CONTENTS

ASBESTOS INSPECTION REPORT

1.0 INTRODUCTION

This report presents the results of Barr & Clark's asbestos inspection of the Commercial Building located at 7101 Lincoln Avenue, Buena Park, California (Subject Property). This document is prepared for the sole use of C&C Development, and any regulatory agencies that are directly involved in this project. No other party should rely on the information contained herein without prior written consent of C&C Development. The scope of services, inspection methodology, and results are presented below.

2.0 SCOPE OF WORK

The purpose of this inspection is to identify and assess certain accessible Asbestos Containing Construction Materials (ACCM) at the subject property.

On October 10, 2019, Barr & Clark performed an inspection for asbestos at the subject property in Buena Park, California. Physical bulk samples were collected of suspect materials from representative locations and submitted to an independent laboratory for analysis. If asbestos was detected at any concentration within a sample of a construction material, it was concluded that the material contains asbestos. Suspect materials were also visually inspected to assess their condition.

3.0 PROPERTY DESCRIPTION

The subject property is a commercial structure that was built circa 1965. It is a two-story building that is constructed over a slab foundation. The exterior walls are covered with stucco, wood siding and concrete.

4.0 INSPECTOR'S QUALIFICATIONS

Matt Crochet of Barr & Clark performed the inspection at the site. Personnel certificate(s) have been provided in ***Appendix B.***

5.0 SAMPLING PROTOCOL / SAMPLE ANALYSIS

Sampling Protocol: Sampling was patterned after the Asbestos School Hazard Emergency Response Act (40 CFR 763 Subpart E) as mandated by Cal/OSHA (Title 8 Section 1529) and South Coast Air Quality Management District (Rule 1403).

Sample Analysis: Physical bulk samples were collected from this property and analyzed for asbestos content by an independent environmental laboratory which is accredited by the National Voluntary Laboratory Accreditation Program (Lab Code 200358-0). The method of analysis was

Polarized Light Microscopy (EPA 600/M4-82-020). Additional laboratory information can be found on the last page of the laboratory results ***(Appendix A).***

6.0 SUMMARY OF RESULTS

Asbestos Containing Construction Materials: Asbestos was detected in samples of several construction materials. The following summary identifies these materials, their location within the property, the condition in which they were observed at the time of inspection, approximate quantity of material and percentage of asbestos contained in the material as reported by laboratory analysis.

Material	Sample #	Location	Condition	Quantity*	% Asbestos
Roofing Mastic	7-9	Roof at Penetrations and All Like Roofing Mastic Throughout	**Good**	**75 S.F.**	**3%**
Flooring Mastic (12x12)	22-27	Room 1, Room 2, Room 4 and All Like Flooring Mastic Throughout	**Good**	**14000 S.F.**	**2%**
Flooring Mastic	37-39	Room 6, Room 7 and All Like Flooring Mastic Throughout	**Damaged**	**600 S.F.**	**2%**
Mirror Mastic	40-42	Restrooms and Room 2	**Good**	**70 S.F.**	**8%**
Asbestos Cement Pipe(s)	Visual	Attic	**Good**	**20 S.F.**	**Assumed**

****NOTE: All quantification estimates are approximate and based on information and materials that were accessible at the time of inspection. The chosen contractor is solely responsible for verifying all final ACCM quantities for bidding, abatement, and disposal purposes.***

7.0 RECOMMENDATIONS

The analysis and recommendations submitted in this survey are based in part on the data obtained from specific and discrete sampling locations. However, the nature and extent of variations between the sampling locations may not become evident until renovation or demolition procedures commence. If potential variations (i.e. different building materials) are identified during renovation or demolition activities, it will be necessary to conduct additional bulk sampling.

ACCM in Damaged or Significantly Damaged Condition: These materials present the greatest risk for asbestos exposure**. It is recommended that all *damaged* and/or *significantly damaged* asbestos containing construction materials be removed following *SCAQMD Rule 1403 Procedure 5*.** An asbestos abatement contractor registered with the Division of Occupational Safety and Health must perform any work that disturbs these materials.

ACCM in Good Condition: No action is recommended for these materials. Asbestos containing materials that are maintained in good condition present minimal risk for asbestos exposure.

Note: If renovation or demolition activities are to affect these materials, an asbestos abatement contractor registered with the Division of Occupational Safety and Health should be contracted to perform all portions of the work affecting these materials.

8.0 INSPECTION LIMITATIONS

This inspection was planned, developed, and implemented based on Barr & Clark's previous experience in performing asbestos inspections. Barr & Clark utilized state-of-the-art-practices and techniques in accordance with regulatory standards while performing this inspection. Barr & Clark's evaluation of the relative risk of exposure to asbestos identified during this inspection is based on conditions observed at the time of the inspection. Barr & Clark cannot be responsible for changing conditions that may alter the relative exposure risk or for future changes in accepted methodology.

This inspection did not evaluate hidden, buried or unseen building or other materials. When future renovation or demolition activities are undertaken, Barr & Clark should be contacted if such are encountered for further evaluation. Any materials that were not sampled during the inspection must be presumed to contain asbestos until proven otherwise. Access and inspection of attics or crawl spaces could be limited due to visibility, obstructions, health and safety hazards or structural issues. All undocumented materials should be presumed to contain asbestos until sampled and analyzed.

Enclosed are the actual test results and all relevant certifications and licenses.

APPENDIX A

(LABORATORY RESULTS)

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order:	331921586
Customer ID:	32BACA26
Customer PO:	3014888
Project ID:	

Attention:	Barr & Clark, Inc. 16531 Bolsa Chica Street Suite 205 Huntington Beach, CA 92649	**Phone:**	(714) 894-5700
		Fax:	
		Received Date:	10/10/2019 12:00 PM
		Analysis Date:	10/15/2019
		Collected Date:	10/10/2019

Project: Commercial Building - 7101 Lincoln Avenue, Buena Park, CA 90620

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1 *331921586-0001*	Main roof - Roofing	Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
2-Roofing 1 *331921586-0002*	Main roof - Roofing	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
2-Roofing 2 *331921586-0002A*	Main roof - Roofing	Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
3-Roofing 1 *331921586-0003*	Main roof - Roofing	White/Black Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
3-Roofing 2 *331921586-0003A*	Main roof - Roofing	Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
4-Roofing *331921586-0004*	Parapet roof - Roofing	Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
4-Insulation *331921586-0004A*	Parapet roof - Roofing	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
5-Roofing 1 *331921586-0005*	Parapet roof - Roofing	White/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
5-Roofing 2 *331921586-0005A*	Parapet roof - Roofing	Black Fibrous Heterogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
5-Insulation *331921586-0005B*	Parapet roof - Roofing	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
6-Roofing *331921586-0006*	Parapet roof - Roofing	White/Black Fibrous Heterogeneous	15% Glass	85% Non-fibrous (Other)	None Detected
6-Insulation *331921586-0006A*	Parapet roof - Roofing	Brown Fibrous Homogeneous	70% Cellulose	30% Non-fibrous (Other)	None Detected
7 *331921586-0007*	Roof @ penetrations - Mastic	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
8 *331921586-0008*	Roof @ penetrations - Mastic				Positive Stop (Not Analyzed)
9 *331921586-0009*	Roof @ penetrations - Mastic				Positive Stop (Not Analyzed)
10-Finish Coat *331921586-0010* *Stucco not found.*	Exterior walls - Stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/15/2019 13:30:48

LA Testing

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Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order:	331921586
Customer ID:	32BACA26
Customer PO:	3014888
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
11-Finish Coat *331921586-0011*	Exterior walls - Stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
11-Stucco *331921586-0011A*	Exterior walls - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
12-Finish Coat *331921586-0012* *Stucco not found.*	Exterior walls - Stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13-Finish Coat *331921586-0013*	Exterior walls - Stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
13-Stucco *331921586-0013A*	Exterior walls - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14-Finish Coat *331921586-0014*	Exterior walls - Stucco	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
14-Stucco *331921586-0014A*	Exterior walls - Stucco	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15-Joint Compound *331921586-0015*	Room 1 - DW & JC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
15-Drywall *331921586-0015A*	Room 1 - DW & JC	Brown/White Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
16-Joint Compound *331921586-0016*	Room 2 - DW & JC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
16-Drywall *331921586-0016A*	Room 2 - DW & JC	Brown/White Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
17-Joint Compound *331921586-0017*	Room 5 - DW & JC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
17-Drywall *331921586-0017A*	Room 5 - DW & JC	Brown Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
18-Joint Compound *331921586-0018*	Restroom 2 - DW & JC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
18-Drywall *331921586-0018A*	Restroom 2 - DW & JC	Brown/White Fibrous Heterogeneous	8% Cellulose 3% Glass	89% Non-fibrous (Other)	None Detected
19-Joint Compound *331921586-0019*	Room 7 - DW & JC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
19-Drywall *331921586-0019A*	Room 7 - DW & JC	Brown/White Fibrous Heterogeneous	8% Cellulose 3% Glass	89% Non-fibrous (Other)	None Detected
20-Joint Compound *331921586-0020*	Room 8 - DW & JC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/15/2019 13:30:48

LA Testing

5431 Industrial Drive Huntington Beach, CA 92649

Tel/Fax: (714) 828-4999 / (714) 828-4944

http://www.LATesting.com / gardengrovelab@latesting.com

LA Testing Order:	331921586
Customer ID:	32BACA26
Customer PO:	3014888
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
20-Drywall *331921586-0020A*	Room 8 - DW & JC	Brown/White Fibrous Heterogeneous	8% Cellulose 3% Glass	89% Non-fibrous (Other)	None Detected
21-Joint Compound *331921586-0021*	Restroom 3 - DW & JC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
21-Drywall *331921586-0021A*	Restroom 3 - DW & JC	Brown/White Fibrous Heterogeneous	8% Cellulose 3% Glass	89% Non-fibrous (Other)	None Detected
22-Floor Tile *331921586-0022*	Room 1 - 12" x 12" white flooring	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
22-Mastic *331921586-0022A*	Room 1 - 12" x 12" white flooring	Black/Yellow Non-Fibrous Heterogeneous		98% Non-fibrous (Other)	2% Chrysotile
23-Floor Tile *331921586-0023*	Room 2 - 12" x 12" white flooring	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
23-Mastic *331921586-0023A*	Room 2 - 12" x 12" white flooring				Positive Stop (Not Analyzed)
24-Floor Tile *331921586-0024*	Room 4 - 12" x 12" white flooring	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
24-Mastic *331921586-0024A*	Room 4 - 12" x 12" white flooring				Positive Stop (Not Analyzed)
25-Floor Tile *331921586-0025*	Room 1 - 12"x 12" blue flooring	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
25-Mastic *331921586-0025A*	Room 1 - 12"x 12" blue flooring	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
26-Floor Tile *331921586-0026*	Room 2 - 12"x 12" blue flooring	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
26-Mastic *331921586-0026A*	Room 2 - 12"x 12" blue flooring	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
27-Floor Tile *331921586-0027*	Room 4 - 12"x 12" blue flooring	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
27-Mastic 1 *331921586-0027A*	Room 4 - 12"x 12" blue flooring	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
27-Mastic 2 *331921586-0027B*	Room 4 - 12"x 12" blue flooring	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-Floor Tile *331921586-0028*	Restroom 3 - 12"x 12" tan flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
28-Mastic *331921586-0028A*	Restroom 3 - 12"x 12" tan flooring	Tan/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
28-Leveler *331921586-0028B*	Restroom 3 - 12"x 12" tan flooring	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/15/2019 13:30:48

LA Testing

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LA Testing Order:	331921586
Customer ID:	32BACA26
Customer PO:	3014888
Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
29-Floor Tile *331921586-0029*	Restroom 3 - 12"x 12" tan flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-Mastic *331921586-0029A*	Restroom 3 - 12"x 12" tan flooring	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
29-Leveler *331921586-0029B*	Restroom 3 - 12"x 12" tan flooring	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-Floor Tile *331921586-0030*	Restroom 3 - 12"x 12" tan flooring	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-Mastic *331921586-0030A*	Restroom 3 - 12"x 12" tan flooring	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
30-Leveler *331921586-0030B*	Restroom 3 - 12"x 12" tan flooring	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31-Floor Tile *331921586-0031*	Restroom 4 - 12"x 12" white flooring	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
31-Mastic *331921586-0031A*	Restroom 4 - 12"x 12" white flooring	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
32-Floor Tile *331921586-0032*	Restroom 5 - 12"x 12" white flooring	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
32-Mastic *331921586-0032A*	Restroom 5 - 12"x 12" white flooring	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
33-Floor Tile *331921586-0033*	Restroom 5 - 12"x 12" white flooring	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
33-Mastic *331921586-0033A*	Restroom 5 - 12"x 12" white flooring	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
34-Cove Base *331921586-0034*	Room 1 - Cove base & mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34-Mastic *331921586-0034A*	Room 1 - Cove base & mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
34-Joint Compound *331921586-0034B*	Room 1 - Cove base & mastic	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35-Cove Base *331921586-0035*	Room 5 - Cove base & mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
35-Mastic *331921586-0035A*	Room 5 - Cove base & mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-Cove Base *331921586-0036*	Room 7 - Cove base & mastic	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
36-Mastic *331921586-0036A*	Room 7 - Cove base & mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Initial report from: 10/15/2019 13:30:48

LA Testing

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LA Testing Order:	331921586
Customer ID:	32BACA26
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Project ID:	

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
37-Mastic 1 *331921586-0037*	Room 6 - Old flooring mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
37-Mastic 2 *331921586-0037A*	Room 6 - Old flooring mastic	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
38-Mastic 1 *331921586-0038*	Room 6 - Old flooring mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
38-Mastic 2 *331921586-0038A*	Room 6 - Old flooring mastic				Positive Stop (Not Analyzed)
39 *331921586-0039* *Yellow mastic not present*	Room 7 - Old flooring mastic				Positive Stop (Not Analyzed)
40 *331921586-0040*	Restroom 5 - Mirror mastic	Black Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
41 *331921586-0041*	Restroom 1 - Mirror mastic				Positive Stop (Not Analyzed)
42 *331921586-0042*	Restroom 2 - Mirror mastic				Positive Stop (Not Analyzed)
43 *331921586-0043*	Attic - Tape on old duct work	Gray/Beige Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
44 *331921586-0044*	Attic - Tape on old duct work	Gray/Beige Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected
45 *331921586-0045*	Attic - Tape on old duct work	Gray/Beige Fibrous Homogeneous	40% Cellulose	60% Non-fibrous (Other)	None Detected

Analyst(s)

Brian Magumcia (22)
Dennies Ly (13)
Sophia Nguyen (40)

Michael DeCavallas, Laboratory Manager
or Other Approved Signatory

Initial report from: 10/15/2019 13:30:48

#3319215 86

BARR & CLARK ENVIRONMENTAL

Project No. **3014888**
Date: 10/10/19
Inspector: Matt Crochet

Project Name: **Commercial Building**
Address: 7101 Lincoln Avenue, Buena Park, CA 90620

Sample #	***Lab #***	***Location***	***Material***	***Condition (G/D/S)***	***Stop at 1st Positive***
1		MAIN ROOF	ROOFING	G	Y
2		"	"	"	"
3		"	"	"	"
4		PARAPET ROOF	ROOFING	G	Y
5		"	"	"	"
6		"	"	"	"
7		ROOF @ PENETRATIONS	MASTIC	G	Y
8		"	"	"	"
9		"	"	"	"
10		EXTERIOR WALLS	STUCCO	G	Y
11		"	"	"	"
12		"	"	"	"

Relinquished by: M. Crochet **Date:** 10/10/19 **Turnaround:** 24 HR 48HR (72HR) RUSH

Received by: HC (WI) **Date:** _____ **Time:** 10.10.19 12pm **Analysis:** PLM

#3319215 86

BARR & CLARK ENVIRONMENTAL

Project No. **3014888**
Date: 10/10/19
Inspector: Matt Crochet

Project Name: **Commercial Building**
Address: 7101 Lincoln Avenue, Buena Park, CA 90620

Sample #	***Lab #***	***Location***	***Material***	***Condition (G/D/S)***	***Stop at 1st Positive***
13		EXTERIOR WALLS	STUCCO	G	Y
14		"	"	"	"
15		ROOM 1	DW + JC	G	Y
16		ROOM 2	"	"	"
17		ROOM 5	"	"	"
18		RESTROOM 2	"	"	"
19		ROOM 7	"	"	"
20		ROOM 8	"	"	"
21		RESTROOM 3	"	"	"
22		ROOM 1	12"x12" WHITE FLOORING	G	Y
23		ROOM 2	"	"	"
24		ROOM 4	"	"	"

Relinquished by: M. Crochet **Date:** 10/10/19 **Turnaround:** 24 HR 48HR ~~72HR~~ RUSH

Received by: _____ **Date:** _____ **Time:** _____

#3319215 86

BARR & CLARK ENVIRONMENTAL

Project No. **3014888**
Date: 10/10/19
Inspector: Matt Crochet

Project Name: **Commercial Building**
Address: 7101 Lincoln Avenue, Buena Park, CA 90620

Sample #	Lab #	Location	Material	Condition (G/D/S)	Stop at 1st Positive
25		ROOM 1	12"x12" BLUE FLOORING	G	Y
26		ROOM 2	"	"	"
27		ROOM 4	"	"	"
28		RESTROOM 3	12"x12" TAN FLOORING	G	Y
29		"	"	"	"
30		"	"	"	"
31		RESTROOM - 4	12"x12" WHITE FLOORING	G	Y
32		" 5	"	"	"
33		" 1	"	"	"
34		ROOM 1	COVE BASE + MASTIC	G	Y
35		- 5	"	"	"
36		- 7	"	"	"

Relinquished by: Matt Crochet **Date:** 10/10/19 **Turnaround:** 24 HR 48HR (72HR) RUSH

Received by: _____ **Date:** _____ **Time:** _____

#3319215 86

OrderID: 331921586

BARR & CLARK ENVIRONMENTAL

Project No. **3014888**
Date: 10/10/19
Inspector: Matt Crochet

Project Name: **Commercial Building**
Address: 7101 Lincoln Avenue, Buena Park, CA 90620

Sample #	*Lab #*	*Location*	*Material*	*Condition (G/D/S)*	*Stop at 1st Positive*
37		ROOM 6	OLD FLOORING MASTIC	D	Y
38		〃 6	〃	〃	〃
39		〃 7	〃	〃	〃
40		RESTROOM 5	MIRROR MASTIC	G	Y
41		〃 - 1	〃	〃	〃
42		〃 - 2	〃	〃	〃
43		ATTIC	TAPE ON OLD DUCTWORK	D	Y
44		〃	〃	〃	〃
45		〃	〃	〃	〃
46					
47					
48					

Relinquished by: M. Crochet **Date:** 10/10/19 **Turnaround:** 24 HR 48HR 72HR RUSH

Received by: _____ **Date:** _____ **Time:** _____

APPENDIX B

(INSPECTOR'S CERTIFICATES)

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Matthew P Crochet
Name

Certification No. 14-5176

Expires on 03/12/20

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Keith A Piner
Name

Certification No. 01-4021

Expires on 11/16/19

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Jeremy Nguyen
Name

Certification No. 17-6140

Expires on 01/17/20

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Dana E Williams
Name

Certification No. 93-1168

Expires on 11/19/19

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

APPENDIX C

(INSURANCE CERTIFICATE)

BARR&CL-01 LUELFA

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 03/13/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER License # 0E67768
Legends Environmental Ins. Services
130 Vantis
Suite 250
Aliso Viejo, CA 92656

CONTACT NAME: Margarite Leon
PHONE (A/C, No, Ext): (925) 918-4524 FAX (A/C, No):
E-MAIL ADDRESS: Margarite.Leon@ioausa.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Westchester Surplus Lines Insurance Company	10172
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Barr & Clark
16531 Bolsa Chica Street, Suite 205
Huntington Beach, CA 92649

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE	$ 2,000,000
	CLAIMS-MADE X OCCUR			G46606954002	03/09/2019	03/09/2021	DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 50,000
							MED EXP (Any one person)	$ 10,000
							PERSONAL & ADV INJURY	$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 2,000,000
	POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG	$ 2,000,000
	OTHER:							$
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$
	ANY AUTO						BODILY INJURY (Per person)	$
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE	$
	EXCESS LIAB CLAIMS-MADE						AGGREGATE	$
	DED RETENTION $							$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY Y / N						PER STATUTE / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) N / A						E.L. EACH ACCIDENT	$
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$
							E.L. DISEASE - POLICY LIMIT	$
A	Contractor Pollution			G46606954002	03/09/2019	03/09/2021	Each Claim	2,000,000
A	Professional Liabili			G46606954002	03/09/2019	03/09/2021		2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
*Professional Liability is written on a Claims Made basis.

CERTIFICATE HOLDER

NOTE: This is a copy of our general and professional liability insurance. Your city or company's specific insurance is on file.

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Allstate.
You're in good hands.

CI CW A02 10 11

CERTIFICATE OF INSURANCE

This certificate is issued for informational purposes only. It certifies that the policies listed in this document have been issued to the Named Insured. It does not grant any rights to any party nor can it be used, in any way, to modify coverage provided by such policies. Alteration of this certificate does not change the terms, exclusions or conditions of such policies. Coverage is subject to the provisions of the policies, including any exclusions or conditions, regardless of the provisions of any other contract, such as between the certificate holder and the Named Insured. The limits shown below are the limits provided at the policy inception. Subsequent paid claims may reduce these limits.

Certificate Holder:	**Named Insured:**
This is a copy of our general auto insurance. Your company or city's specific insurance is on file.	BARR & CLARK, INC. 16531 BOLSA CHICA ST STE 205 HUNTINGTON BEACH CA 92649-3595

Automobile Liability

Insurer Name: Allstate Insurance Company

Policy Number: 648761551

	1 -- Any Auto		**2** – Owned Autos Only		**3** – Owned Priv. Pass. Autos Only
	4 -- Owned Autos Other Than Priv. Pass. Autos Only		**5** – Owned Autos Subject to No Fault		**6** – Owned Autos Subject to a Compulsory UM Law
X	**7** -- Specifically Described Autos	X	**8** – Hired Autos Only	X	**9** – Nonowned Autos Only

Policy Effective Date : **Policy Expiration Date:**

Limits of Insurance:	$1,000,000	Combined Single Limit (each accident)	
	BI Per Person	BI Per Accident	PD Per Accident

Description of Operations/Locations/Vehicles/Endorsements/Special Provisions

Interested Party Type: Additional Insured - All Other

THIS CERTIFICATE DOES NOT GRANT ANY COVERAGE OR RIGHTS TO THE CERTIFICATE HOLDER.

IF THIS CERTIFICATE INDICATES THAT THE CERTIFICATE HOLDER IS AN ADDITIONAL INSURED, THE POLICY(IES) MUST EITHER BE ENDORSED OR CONTAIN SPECIFIC LANGUAGE PROVIDING THE CERTIFICATE HOLDER WITH ADDITIONAL INSURED STATUS. THE CERTIFICATE HOLDER IS AN ADDITIONAL INSURED ONLY TO THE EXTENT INDICATED IN SUCH POLICY LANGUAGE OR ENDORSEMENT.

Producer: SMART MONEY SOL INC	
Authorized Representative:	**Date:**

POLICYHOLDER COPY

SP

STATE COMPENSATION INSURANCE FUND

P.O. BOX 8192, PLEASANTON, CA 94588

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

GROUP:
POLICY NUMBER: 1917813
CERTIFICATE ID: 243

This is a copy of our general worker's compensation insurance. Your company or city's specific insurance is on file.

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon 30 days advance written notice to the employer.

We will also give you 30 days advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policy listed herein. Notwithstanding any requirement, term or condition of any contract or other document with respect to which this certificate of insurance may be issued or to which it may pertain, the insurance afforded by the policy described herein is subject to all the terms, exclusions, and conditions, of such policy.

Authorized Representative

President and CEO

EMPLOYER'S LIABILITY LIMIT INCLUDING DEFENSE COSTS: $1,000,000 PER OCCURRENCE.

ENDORSEMENT #0015 ENTITLED ADDITIONAL INSURED EMPLOYER EFFECTIVE IS ATTACHED TO AND FORMS A PART OF THIS POLICY. NAME OF ADDITIONAL INSURED:

ENDORSEMENT #2065 ENTITLED CERTIFICATE HOLDERS' NOTICE EFFECTIVE IS ATTACHED TO AND FORMS A PART OF THIS POLICY.

EMPLOYER

BARR & CLARK, INC
16531 BOLSA CHICA ST STE 205
HUNTINGTON BEACH CA 92649

SP

[P14,SP]

(REV.7-2014)

APPENDIX D

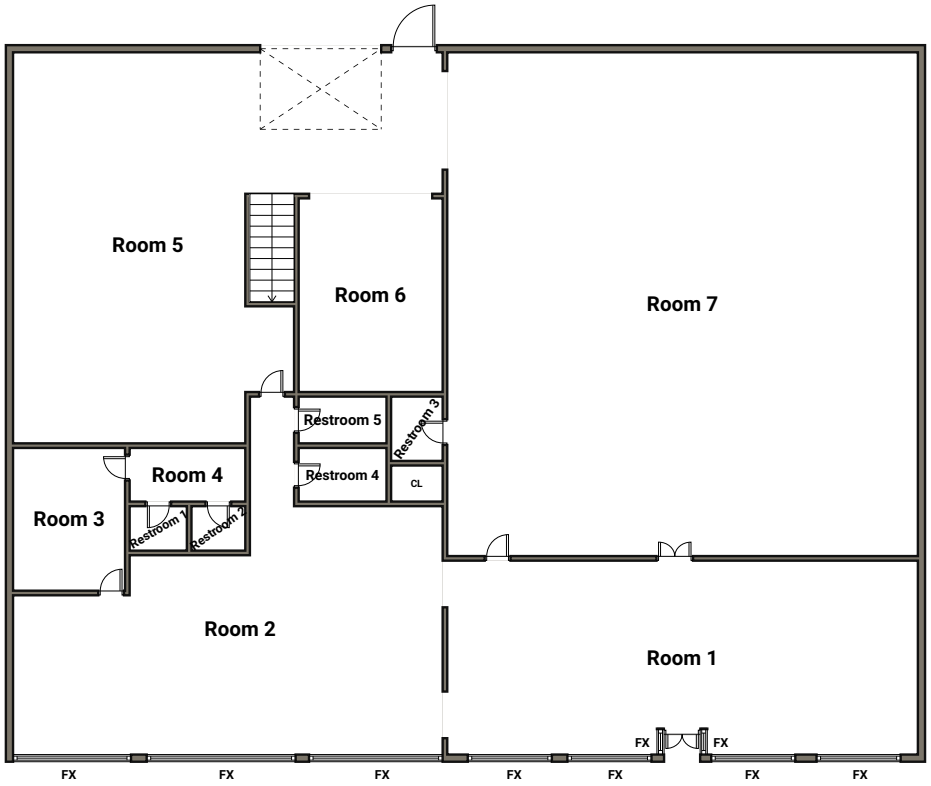
(MAPS)

C

1st Floor

B

D



A

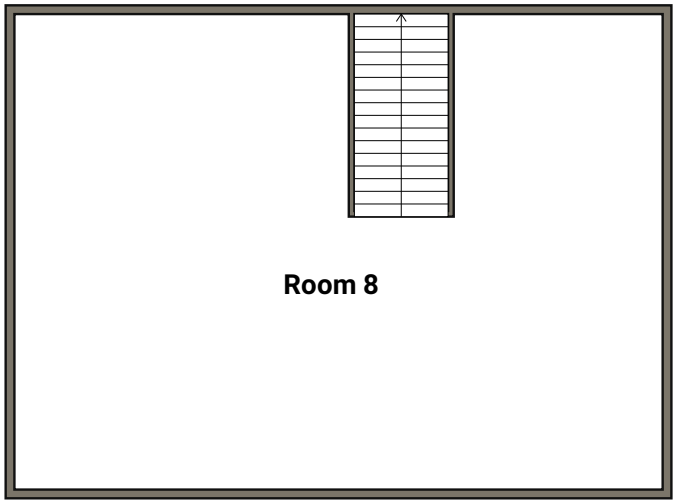
N

Window Key:
FX = Fixed

Commercial Building
7101 Lincoln Avenue
Buena Park, CA
Project #3014888

C

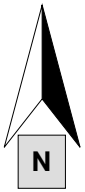
2nd
Floor



B

D

A



Commercial Building
7101 Lincoln Avenue
Buena Park, CA
Project #3014888

Attachment 7. Lead-Based Paint Inspection Report

BARR & CLARK
Independent Environmental Testing
Asbestos • Lead • Mold • Phase I

LEAD-BASED PAINT INSPECTION REPORT

OF

COMMERCIAL BUILDING
7101 LINCOLN AVENUE
BUENA PARK, CA

PROJECT NO. 3014888

OCTOBER 15, 2019

Prepared For:
C&C Development
14211 Yorba Street
Tustin, CA 92780

Prepared By:

Jeremy Nguyen
State of California Certified
Lead Inspector / Risk Assessor

Reviewed By:

Matt Crochet
State of California Certified
Lead Inspector / Risk Assessor

TABLE OF CONTENTS

LEAD-BASED PAINT INSPECTION REPORT

1.0 INTRODUCTION

This report presents the results of Barr & Clark Environmental's lead-based paint (LBP) inspection of the Commercial Building located at 7101 Lincoln Avenue, Buena Park, California (Subject Property). This document is prepared for the sole use of C&C Development, and any regulatory agencies that are directly involved in this project. No other party should rely on the information contained herein without prior written consent of C&C Development. The scope of services, inspection methodology, and results are presented below.

2.0 SCOPE OF WORK

The purpose of this inspection is to identify and assess the Lead-Based Paint (LBP) present on painted components at the subject property.

On October 10, 2019, Barr & Clark performed an inspection for lead-based paint at the subject property in Buena Park, California. To comply with EPA and HUD guidelines, painted and varnished surfaces in every accessible "room equivalent" were sampled for the presence of LBP. The intent was to ascertain the presence of lead-based paint above the federal action level. If LBP was found, the inspection would identify individual architectural components and their respective concentrations of lead in such a manner that this report would be used to characterize the presence of LBP at this property.

3.0 PROPERTY DESCRIPTION

The subject property is a commercial structure that was built circa 1965. It is a two-story building that is constructed over a slab foundation. The exterior walls are covered with stucco, wood siding and concrete. All of the windows are aluminum-framed types. At the time of this inspection, most of the painted surfaces were in fair condition.

4.0 INSPECTOR'S QUALIFICATIONS

Jeremy Nguyen of Barr & Clark performed the inspection at the site using an RMD LPA-1 XRF spectrum analyzer instrument. He has attended the radiation safety course for handling the instrument, and completed an EPA approved curriculum in Lead in Construction Inspector / Risk Assessor Training.

At the time of this report, the California Department of Health Services, Childhood Lead Poisoning Branch, has implemented a State Certification Model Accreditation Plan adopted from the EPA. Jeremy Nguyen has received certification. Personnel certificate(s) have been provided in ***Appendix B.***

5.0 TESTING PROTOCOL

XRF Testing: Testing of the painted surfaces was patterned after the inspection protocol in Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing[1]. In every

[1] 2012 Revision

"room equivalent" within the tested property, one representative surface of each "testing combination" was tested. Multiple readings were collected to resolve inconsistencies in the test results.

Regulatory Compliance: Several public (government) agencies have a published "regulatory action level" to classify LBP. To further complicate matters, some of the established "levels" are quantified in different units of measurement. Listed below are the current regulatory agencies that have defined LBP, along with the respective action level:

Agency	Ordinance #	Action level (mg / cm^2)	Action level (ppm^2)
HUD / EPA	24 CFR 35.86 & 40 CFR 745.103	1.0 mg / cm^2	5,000 ppm
OSHA / CAL OSHA	29 CFR 1926.62 & Title 8, 1532.1	*Not Specified*	600 ppm[3]

HUD / EPA have recently issued the following guidance regarding units of measurement for paint samples:

"Report lead paint amounts in mg/cm² because this unit of measurement does not depend on the number of layers of non-lead-based paint and can usually be obtained without damaging the painted surface. All measurements of lead in paint should be in mg/cm², unless the surface area cannot be measured or if all paint cannot be removed from the measured surface area. In such cases, concentrations may be reported in weight percent (%) or parts per million by weight (ppm)."[4]

Furthermore, EPA has previously issued guidance on lead content classification as follows:

"… The rule, at 24 CFR 35.86 and 40 CFR 745.103 states that a lead-based paint free finding must demonstrate that the building is free of 'paint or other surface coatings that contain lead in excess of 1.0 milligrams per square centimeter *(1.0 mg / cm^2)* or 0.5 percent by weight *(5000 ppm)*.' The State standards are not applicable, whether more or less stringent, since a State cannot amend Federal requirements."[5]

In recognition of the various action levels the testing results are classified as follows for this report:

- Painted surfaces with readings at or above 1.0 mg / cm^2 are considered - Positive
- Painted surfaces with readings at or below 0.9 mg / cm^2 are considered - Negative

The individual readings have been provided on all field data sheets. Any future change in action levels by one of the regulating agencies may affect the classification of results.

6.0 METHOD OF TESTING

Paint Testing: The method employed was X-ray fluorescence (XRF) using a Radiation Monitoring Device Lead Paint Analyzer (RMD LPA-1). The instrument was operated in "Quick Mode," where the duration for each test result is determined by a combination of:

- the actual reading relative to the designated action level;
- the age of the radioactive source; and
- the substrate on which the test was taken.

The instrument's calibration was verified according to the manufacturer's specifications in compliance with the Performance Characteristic Sheet (PCS) developed for this instrument.

2 Parts per million
3 Applies to construction related activities
4 Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Revision).
5 Office of Pollution Prevention and Toxics, (August 20, 1996)

The readings from this instrument produce a 95% confidence level that the "lead" reading accurately reflects the actual level of lead in the tested surfaces, relative to the federal action level.

7.0 SUMMARY OF RESULTS

Paint Sampling: Throughout the subject property, several of the painted components indicated the presence of lead-based paint (LBP) at or above the action level. The following summary lists the specific components that tested above the action level and their respective locations:

Interior

- Room 5 – columns (yellow)
- Room 8 – columns (yellow)

8.0 RECOMMENDATIONS

The greatest potential for lead exposure from lead painted architectural components occurs when:

- the paint has become defective; or
- when the paint is applied to a friction / impact component where the paint is continually disturbed; or
- when the paint is disturbed through routine maintenance or renovation activities.

With this in mind, the following are our recommendations for this property:

- The results from this inspection should be provided to any individuals that may disturb the painted surfaces. It is encouraged to utilize professionals that have experience working with LBP.
- If renovation is scheduled in the near future (less than three months), all lead painted components that have been previously targeted for replacement should be replaced utilizing "lead safe" containment and work practices.
- ALL components that have been identified with defective lead paint should have the paint repaired as soon as possible. Any paint repair should be done utilizing "lead safe" containment, work practices, and clean-up techniques.
- All components with lead painted friction / impact surfaces should be treated to minimize the friction or impact as necessary.
- Lead painted components that **have not** been targeted for replacement should either be considered for abatement (replacement, enclosure, encapsulation, etc.) or included in an Operations & Management (O & M) Plan that will help to minimize exposures to lead hazards.
- All lead painted surfaces that are not expected to be impacted in the near future (less than three months) should also be included the O & M plan.
- In addition, the tenants or occupants of the dwelling should be notified of the test results and instructed in actions that they may perform to keep the living areas "lead safe."

9.0 TITLE X REQUIREMENTS

A copy (or summary) of this report must be provided to new lessees (tenants) and purchasers of this property under Federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants. Landlords (lessors) and sellers are also required to distribute an educational

pamphlet approved by the U.S. Environmental Protection Agency and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards. This report should be maintained and updated as a permanent maintenance record for this property.

10.0 INSPECTION LIMITATIONS

This inspection was planned, developed, and implemented based on Barr & Clark's previous experience in performing lead-based paint inspections. This inspection was patterned after Chapter 7 of the *HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing (2012 Revision)*. Barr & Clark utilized state-of-the-art-practices and techniques in accordance with regulatory standards while performing this inspection. Barr & Clark's evaluation of the relative risk of exposure to lead identified during this inspection is based on conditions observed at the time of the inspection. Barr & Clark cannot be responsible for changing conditions that may alter the relative exposure risk or for future changes in accepted methodology. Enclosed are the diagram(s), actual test results, and all relevant certifications and licenses.

APPENDIX A

XRF FIELD DATA

SUMMARY OF INTERIOR

Project Name: Commercial Building **Project Number:** 3014888

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Component	Number Tested	Number Positive	Percent Positive	Number Negative	Percent Negative
Brick Column	2	0		2	100.00%
Concrete Floor	1	0		1	100.00%
Concrete Wall	5	0		5	100.00%
Gypsum Ceiling	12	0		12	100.00%
Gypsum Wall	47	0		47	100.00%
Metal Beam	3	0		3	100.00%
Metal Column	7	4	57.14%	3	42.86%
Metal Door	2	0		2	100.00%
Metal Door Frame	2	0		2	100.00%
Metal Electric Panel/Frame	3	0		3	100.00%
Metal Heater Vent	3	0		3	100.00%
Metal Window Frame	8	0		8	100.00%
Wood Access Panel/Frame	1	0		1	100.00%
Wood Closet Door	1	0		1	100.00%
Wood Closet Frame	1	0		1	100.00%
Wood Deck	1	0		1	100.00%
Wood Door	12	0		12	100.00%
Wood Door Frame	12	0		12	100.00%
Wood Frame	1	0		1	100.00%
Wood Handrail	2	0		2	100.00%
Wood Railing	2	0		2	100.00%
Wood Riser	1	0		1	100.00%
Wood Stringer	1	0		1	100.00%
Wood Tread	1	0		1	100.00%
Wood Wall	1	0		1	100.00%
Total	**132**	**4**		**128**	

Testing done in compliance with current HUD guidelines for XRF.

SUMMARY OF EXTERIOR

Project Name: Commercial Building **Project Number:** 3014888

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Component	Number Tested	Number Positive	Percent Positive	Number Negative	Percent Negative
Asphalt Parking Stripe	4	0		4	100.00%
Brick Wall	6	0		6	100.00%
Concrete Parking Stop	1	0		1	100.00%
Concrete Wall	8	0		8	100.00%
Metal Beam	1	0		1	100.00%
Metal Bollard	4	0		4	100.00%
Metal Ceiling	1	0		1	100.00%
Metal Column	1	0		1	100.00%
Metal Door	2	0		2	100.00%
Metal Door Frame	2	0		2	100.00%
Metal Downspout	2	0		2	100.00%
Metal Eaves	2	0		2	100.00%
Metal Fascia	2	0		2	100.00%
Metal Fence	1	0		1	100.00%
Metal Garage Door	1	0		1	100.00%
Metal Garage Door Frame	1	0		1	100.00%
Metal Gate	1	0		1	100.00%
Metal Light Post	2	0		2	100.00%
Metal Rafters	2	0		2	100.00%
Metal Window Frame	6	0		6	100.00%
Stucco Fascia	3	0		3	100.00%
Stucco Wall	2	0		2	100.00%
Wood Wall	2	0		2	100.00%
Total	**57**	**0**		**57**	

Testing done in compliance with current HUD guidelines for XRF.

SUMMARY OF CALIBRATION

Project Name: Commercial Building **Project Number:** 3014888

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Component	Number Tested	Number Positive	Percent Positive	Number Negative	Percent Negative
Wood 1.0 mg/cm2 Standard	6	6	100%	0	
Total	**6**	**6**		**0**	

Testing done in compliance with current HUD guidelines for XRF.

Interior Lead Containing Components List

Project Name: Commercial Building

Project Number: 3014888

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Protocol: HUD

Sample	Side	Testing Combination	Room Equivalent	Lead	Results	Condition	Comments
76		Metal Column	Interior Room 5	1.9	POSITIVE	Intact	Yellow
77		Metal Column	Interior Room 5	1.8	POSITIVE	Intact	Yellow
137		Metal Column	Interior Room 8	1.2	POSITIVE	Intact	Yellow
138		Metal Column	Interior Room 8	1.5	POSITIVE	Intact	Yellow

The HUD action level for lead-based paint is 1.0 mg/cm2.
Positive is defined as XRF sampling with levels at or above of 1.0 mg/cm2.

Calibration Lead Containing Components List

Project Name: Commercial Building

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Project Number:3014888

Protocol:HUD

Sample	Side	Testing Combination	Room Equivalent	Lead	Results	Condition	Comments
1		1.0 mg/cm2 Standard Wood	Calibration Start of Job	1.0	POSITIVE	Intact	
2		1.0 mg/cm2 Standard Wood	Calibration Start of Job	1.0	POSITIVE	Intact	
3		1.0 mg/cm2 Standard Wood	Calibration Start of Job	1.1	POSITIVE	Intact	
193		1.0 mg/cm2 Standard Wood	Calibration End of Job	1.1	POSITIVE	Intact	
194		1.0 mg/cm2 Standard Wood	Calibration End of Job	1.0	POSITIVE	Intact	
195		1.0 mg/cm2 Standard Wood	Calibration End of Job	1.0	POSITIVE	Intact	

The HUD action level for lead-based paint is 1.0 mg/cm2.
Positive is defined as XRF sampling with levels at or above of 1.0 mg/cm2.

FIELD DATA

FIELD DATA REPORT

Project Name: Commercial Building

Project Number: 3014888

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Protocol: HUD

Sample	Unit ID/Location	Room Equivalent	Side	Component	Substrate	Condition	Lead	Results	Comments
1	Calibration	Calibration Start of Job		1.0 mg/cm2 Standard	Wood	Intact	1.0	POSITIVE	
2	Calibration	Calibration Start of Job		1.0 mg/cm2 Standard	Wood	Intact	1.0	POSITIVE	
3	Calibration	Calibration Start of Job		1.0 mg/cm2 Standard	Wood	Intact	1.1	POSITIVE	
4		Exterior Room 1	A	Door	Metal	Intact	0.0	Negative	
5		Exterior Room 1	A	Door Frame	Metal	Intact	0.0	Negative	
6		Interior Room 1	A	Door	Metal	Intact	0.0	Negative	
7		Interior Room 1	A	Door Frame	Metal	Intact	0.0	Negative	
8		Interior Room 1	A	Window Frame	Metal	Intact	0.1	Negative	Fixed
9		Interior Room 1	A	Window Frame	Metal	Intact	0.0	Negative	Fixed
10		Interior Room 1	A	Window Frame	Metal	Intact	0.1	Negative	Fixed
11		Interior Room 1	B	Window Frame	Metal	Intact	0.0	Negative	Fixed
12		Interior Room 1	D	Window Frame	Metal	Intact	0.0	Negative	Fixed
13		Interior Room 1	A	Wall	Gypsum	Intact	0.0	Negative	
14		Interior Room 1	B	Wall	Gypsum	Intact	0.2	Negative	
15		Interior Room 1	C	Wall	Gypsum	Intact	0.1	Negative	
16		Interior Room 1	D	Wall	Gypsum	Intact	0.1	Negative	
17		Interior Room 1	D	Ceiling	Gypsum	Intact	0.1	Negative	
18		Interior Room 1	D	Heater Vent	Metal	Intact	0.0	Negative	
19		Interior Room 1	A	Column	Brick	Intact	0.2	Negative	
20		Interior Room 1		Column	Metal	Intact	0.0	Negative	
21		Interior Room 1	B	Frame	Wood	Intact	0.2	Negative	Pass Through
22		Interior Room 2		Door	Wood	Intact	0.2	Negative	
23		Interior Room 2		Door Frame	Wood	Intact	0.0	Negative	
24		Interior Room 2	A	Window Frame	Metal	Intact	0.0	Negative	Fixed
25		Interior Room 2	C	Closet Door	Wood	Intact	0.1	Negative	
26		Interior Room 2	C	Closet Frame	Wood	Intact	0.1	Negative	
27		Interior Room 2	A	Window Frame	Metal	Intact	0.0	Negative	Fixed
28		Interior Room 2	A	Window Frame	Metal	Intact	0.0	Negative	Fixed
29		Interior Room 2	A	Wall	Gypsum	Intact	0.1	Negative	

The HUD action level for lead-based paint is 1.0 mg/cm2.
Positive is defined as XRF sampling with levels at or above of 1.0 mg/cm2.

FIELD DATA REPORT

Project Name: Commercial Building

Project Number:3014888

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Protocol:HUD

Sample	Unit ID/Location	Room Equivalent	Side	Component	Substrate	Condition	Lead	Results	Comments
30		Interior Room 2	B	Wall	Gypsum	Intact	0.2	Negative	
31		Interior Room 2	C	Wall	Gypsum	Intact	0.2	Negative	
32		Interior Room 2	D	Wall	Gypsum	Intact	0.1	Negative	
33		Interior Room 2	D	Ceiling	Gypsum	DETERIORATED	0.1	Negative	
34		Interior Room 2	D	Heater Vent	Metal	Intact	0.0	Negative	
35		Interior Room 2	A	Column	Brick	Intact	0.2	Negative	
36		Interior Room 2	C	Wall	Wood	Intact	0.0	Negative	Counter
37		Interior Room 2		Door	Wood	Intact	0.1	Negative	Counter
38		Interior Room 2		Door Frame	Wood	Intact	0.0	Negative	Counter
39		Interior Room 3	A	Door	Wood	Intact	0.0	Negative	
40		Interior Room 3	A	Door Frame	Wood	DETERIORATED	0.2	Negative	
41		Interior Room 3	A	Wall	Gypsum	Intact	0.1	Negative	
42		Interior Room 3	B	Wall	Gypsum	Intact	0.1	Negative	
43		Interior Room 3	C	Wall	Gypsum	Intact	0.0	Negative	
44		Interior Room 3	D	Wall	Gypsum	Intact	0.1	Negative	
45		Interior Room 3	D	Ceiling	Gypsum	Intact	0.0	Negative	
46		Interior Room 3	D	Heater Vent	Metal	Intact	0.0	Negative	
47		Interior Room 3	D	Electric Panel/Frame	Metal	Intact	0.0	Negative	
48		Interior Room 4	B	Door	Wood	Intact	0.1	Negative	
49		Interior Room 4	B	Door Frame	Wood	Intact	0.1	Negative	
50		Interior Room 4	A	Wall	Gypsum	Intact	0.1	Negative	
51		Interior Room 4	B	Wall	Gypsum	Intact	0.0	Negative	
52		Interior Room 4	C	Wall	Gypsum	Intact	0.0	Negative	
53		Interior Room 4	D	Wall	Gypsum	Intact	0.0	Negative	
54		Interior Room 4	D	Ceiling	Gypsum	Intact	0.1	Negative	
55		Interior Restroom 1	C	Door	Wood	Intact	0.0	Negative	
56		Interior Restroom 1	C	Door Frame	Wood	Intact	0.1	Negative	
57		Interior Restroom 1	A	Wall	Gypsum	Intact	0.0	Negative	
58		Interior Restroom 1	B	Wall	Gypsum	Intact	0.1	Negative	

The HUD action level for lead-based paint is 1.0 mg/cm2.
Positive is defined as XRF sampling with levels at or above of 1.0 mg/cm2.

FIELD DATA REPORT

Project Name: Commercial Building

Project Number:3014888

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Protocol:HUD

Sample	Unit ID/Location	Room Equivalent	Side	Component	Substrate	Condition	Lead	Results	Comments
59		Interior Restroom 1	C	Wall	Gypsum	Intact	0.1	Negative	
60		Interior Restroom 1	D	Wall	Gypsum	Intact	0.1	Negative	
61		Interior Restroom 1	D	Ceiling	Gypsum	Intact	0.0	Negative	
62		Interior Restroom 2	C	Door	Wood	Intact	0.2	Negative	
63		Interior Restroom 2	C	Door Frame	Wood	Intact	0.1	Negative	
64		Interior Restroom 2	A	Wall	Gypsum	Intact	0.2	Negative	
65		Interior Restroom 2	B	Wall	Gypsum	Intact	0.1	Negative	
66		Interior Restroom 2	C	Wall	Gypsum	Intact	0.1	Negative	
67		Interior Restroom 2	D	Wall	Gypsum	Intact	0.1	Negative	
68		Interior Restroom 2	D	Ceiling	Gypsum	Intact	0.0	Negative	
69		Interior Room 5	A	Door	Wood	Intact	0.0	Negative	
70		Interior Room 5	A	Door Frame	Wood	Intact	0.1	Negative	
71		Interior Room 5	A	Wall	Gypsum	Intact	0.1	Negative	
72		Interior Room 5	B	Wall	Concrete	Intact	0.2	Negative	
73		Interior Room 5	C	Wall	Concrete	Intact	0.2	Negative	
74		Interior Room 5	D	Wall	Gypsum	Intact	0.2	Negative	
75		Interior Room 5	D	Ceiling	Gypsum	Intact	0.2	Negative	
76		Interior Room 5		Column	Metal	Intact	1.9	POSITIVE	Yellow
77		Interior Room 5		Column	Metal	Intact	1.8	POSITIVE	Yellow
78		Interior Room 5		Tread	Wood	Intact	0.1	Negative	
79		Interior Room 5		Riser	Wood	Intact	0.2	Negative	
80		Interior Room 5		Stringer	Wood	Intact	0.0	Negative	
81		Interior Room 5		Handrail	Wood	Intact	0.1	Negative	
82		Interior Room 5		Railing	Wood	Intact	0.1	Negative	
83		Exterior Room 5	C	Door	Metal	DETERIORATED	0.2	Negative	
84		Exterior Room 5	C	Door Frame	Metal	DETERIORATED	0.2	Negative	
85		Interior Room 5	C	Door	Metal	Intact	0.1	Negative	
86		Interior Room 5	C	Door Frame	Metal	Intact	0.1	Negative	
87		Interior Room 5	C	Electric Panel/Frame	Metal	Intact	0.2	Negative	

The HUD action level for lead-based paint is 1.0 mg/cm2.
Positive is defined as XRF sampling with levels at or above of 1.0 mg/cm2.

FIELD DATA REPORT

Project Name: Commercial Building

Project Number:3014888

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Protocol:HUD

Sample	Unit ID/Location	Room Equivalent	Side	Component	Substrate	Condition	Lead	Results	Comments
88		Interior Room 6	A	Wall	Gypsum	Intact	0.1	Negative	
89		Interior Room 6	B	Wall	Gypsum	Intact	0.2	Negative	
90		Interior Room 6	C	Wall	Gypsum	Intact	0.1	Negative	
91		Interior Room 6	D	Wall	Gypsum	Intact	0.1	Negative	
92		Interior Room 6	D	Ceiling	Gypsum	Intact	0.2	Negative	
93		Interior Room 6	D	Electric Panel/Frame	Metal	Intact	0.0	Negative	
94		Interior Room 7	A	Door	Wood	Intact	0.1	Negative	
95		Interior Room 7	A	Door Frame	Wood	Intact	0.1	Negative	
96		Interior Room 7	A	Door	Wood	Intact	0.1	Negative	
97		Interior Room 7	A	Door Frame	Wood	Intact	0.0	Negative	
98		Interior Room 7	A	Wall	Gypsum	Intact	0.0	Negative	
99		Interior Room 7	B	Wall	Gypsum	Intact	0.0	Negative	
100		Interior Room 7	C	Wall	Gypsum	Intact	0.2	Negative	
101		Interior Room 7	C	Wall	Concrete	Intact	0.0	Negative	
102		Interior Room 7	D	Wall	Concrete	Intact	0.2	Negative	
103		Interior Room 7		Column	Metal	Intact	0.2	Negative	Yellow
104		Interior Room 7		Column	Metal	Intact	0.1	Negative	Yellow
105		Interior Room 7		Beam	Metal	Intact	0.2	Negative	
106		Interior Room 7		Beam	Metal	Intact	0.1	Negative	
107		Exterior Room 7	B	Access Panel/Frame	Wood	Intact	0.2	Negative	
108		Interior Room 7	D	Floor	Concrete	Intact	0.5	Negative	Yellow Stripes
109		Interior Restroom 3	D	Door	Wood	Intact	0.2	Negative	
110		Interior Restroom 3	D	Door Frame	Wood	Intact	0.1	Negative	
111		Interior Restroom 3	A	Wall	Gypsum	Intact	0.1	Negative	
112		Interior Restroom 3	B	Wall	Gypsum	Intact	0.1	Negative	
113		Interior Restroom 3	C	Wall	Gypsum	Intact	0.2	Negative	
114		Interior Restroom 3	D	Wall	Gypsum	Intact	0.2	Negative	
115		Interior Restroom 3	D	Ceiling	Gypsum	Intact	0.0	Negative	
116		Interior Restroom 4	B	Door	Wood	Intact	0.1	Negative	

The HUD action level for lead-based paint is 1.0 mg/cm2.
Positive is defined as XRF sampling with levels at or above of 1.0 mg/cm2.

FIELD DATA REPORT

Project Name: Commercial Building

Project Number:3014888

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Protocol:HUD

Sample	Unit ID/Location	Room Equivalent	Side	Component	Substrate	Condition	Lead	Results	Comments
117		Interior Restroom 4	B	Door Frame	Wood	Intact	0.1	Negative	
118		Interior Restroom 4	A	Wall	Gypsum	Intact	0.2	Negative	
119		Interior Restroom 4	B	Wall	Gypsum	Intact	0.1	Negative	
120		Interior Restroom 4	C	Wall	Gypsum	Intact	0.1	Negative	
121		Interior Restroom 4	D	Wall	Gypsum	Intact	0.1	Negative	
122		Interior Restroom 4	D	Ceiling	Gypsum	Intact	0.0	Negative	
123		Interior Restroom 5	B	Door	Wood	Intact	0.1	Negative	
124		Interior Restroom 5	B	Door Frame	Wood	Intact	0.1	Negative	
125		Interior Restroom 5	A	Wall	Gypsum	Intact	0.0	Negative	
126		Interior Restroom 5	B	Wall	Gypsum	Intact	0.1	Negative	
127		Interior Restroom 5	C	Wall	Gypsum	Intact	0.1	Negative	
128		Interior Restroom 5	D	Wall	Gypsum	Intact	0.0	Negative	
129		Interior Restroom 5	D	Ceiling	Gypsum	Intact	0.1	Negative	
130		Interior Room 8	A	Wall	Gypsum	DETERIORATED	0.1	Negative	
131		Interior Room 8	B	Wall	Concrete	Intact	0.2	Negative	
132		Interior Room 8	D	Wall	Gypsum	Intact	0.2	Negative	
133		Interior Room 8	D	Ceiling	Gypsum	DETERIORATED	0.2	Negative	
134		Interior Room 8		Deck	Wood	Intact	0.1	Negative	
135		Interior Room 8		Handrail	Wood	Intact	0.2	Negative	
136		Interior Room 8		Railing	Wood	Intact	0.1	Negative	
137		Interior Room 8		Column	Metal	Intact	1.2	POSITIVE	Yellow
138		Interior Room 8		Column	Metal	Intact	1.5	POSITIVE	Yellow
139		Interior Room 8		Beam	Metal	Intact	0.2	Negative	
140	Perimeter	Exterior South Side	A	Window Frame	Metal	DETERIORATED	0.2	Negative	
141	Perimeter	Exterior South Side	A	Window Frame	Metal	DETERIORATED	0.0	Negative	Fixed
142	Perimeter	Exterior South Side	A	Window Frame	Metal	DETERIORATED	0.0	Negative	Fixed
143	Perimeter	Exterior South Side	A	Window Frame	Metal	DETERIORATED	0.1	Negative	Fixed
144	Perimeter	Exterior South Side	A	Wall	Brick	Intact	0.2	Negative	
145	Perimeter	Exterior South Side	A	Wall	Brick	Intact	0.2	Negative	

The HUD action level for lead-based paint is 1.0 mg/cm2.
Positive is defined as XRF sampling with levels at or above of 1.0 mg/cm2.

FIELD DATA REPORT

Project Name: Commercial Building

Project Number:3014888

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Protocol:HUD

Sample	Unit ID/Location	Room Equivalent	Side	Component	Substrate	Condition	Lead	Results	Comments
146	Perimeter	Exterior South Side	A	Wall	Wood	Intact	0.1	Negative	
147	Perimeter	Exterior South Side	A	Wall	Wood	Intact	0.1	Negative	
148	Perimeter	Exterior South Side	A	Column	Metal	Intact	0.0	Negative	
149	Perimeter	Exterior South Side	A	Beam	Metal	Intact	0.2	Negative	
150	Perimeter	Exterior South Side	A	Ceiling	Metal	Intact	0.1	Negative	
151	Perimeter	Exterior South Side	A	Parking Stripe	Asphalt	Intact	0.2	Negative	White
152	Perimeter	Exterior South Side	A	Parking Stripe	Asphalt	Intact	0.2	Negative	White
153	Perimeter	Exterior South Side	A	Parking Stop	Concrete	Intact	0.1	Negative	White
154	Perimeter	Exterior South Side	A	Light Post	Metal	Intact	0.4	Negative	White
155	Perimeter	Exterior South Side	A	Gate	Metal	Intact	0.2	Negative	
156	Perimeter	Exterior South Side	A	Fence	Metal	Intact	0.2	Negative	
157	Perimeter	Exterior South Side	A	Fascia	Stucco	Intact	0.1	Negative	
158	Perimeter	Exterior South Side	A	Fascia	Stucco	Intact	0.2	Negative	
159	Perimeter	Exterior South Side	A	Fascia	Stucco	Intact	0.4	Negative	
160	Perimeter	Exterior South Side	A	Wall	Stucco	Intact	0.2	Negative	
161	Perimeter	Exterior South Side	A	Wall	Stucco	Intact	0.3	Negative	
162	Perimeter	Exterior West Side	B	Window Frame	Metal	DETERIORATED	0.1	Negative	Fixed
163	Perimeter	Exterior West Side	B	Wall	Concrete	Intact	0.4	Negative	
164	Perimeter	Exterior West Side	B	Wall	Concrete	Intact	0.2	Negative	
165	Perimeter	Exterior West Side	B	Wall	Concrete	Intact	0.2	Negative	
166	Perimeter	Exterior West Side	B	Wall	Concrete	Intact	0.2	Negative	
167	Perimeter	Exterior West Side	B	Downspout	Metal	DETERIORATED	0.2	Negative	
168	Perimeter	Exterior West Side	B	Bollard	Metal	DETERIORATED	0.5	Negative	
169	Perimeter	Exterior West Side	B	Bollard	Metal	DETERIORATED	0.5	Negative	
170	Perimeter	Exterior West Side	B	Parking Stripe	Asphalt	DETERIORATED	0.2	Negative	
171	Perimeter	Exterior West Side	B	Parking Stripe	Asphalt	DETERIORATED	0.0	Negative	
172	Perimeter	Exterior North Side	C	Wall	Concrete	Intact	0.2	Negative	
173	Perimeter	Exterior North Side	C	Wall	Concrete	Intact	0.3	Negative	
174	Perimeter	Exterior North Side	C	Wall	Concrete	Intact	0.2	Negative	

The HUD action level for lead-based paint is 1.0 mg/cm2.
Positive is defined as XRF sampling with levels at or above of 1.0 mg/cm2.

FIELD DATA REPORT

Project Name: Commercial Building

Address:
7101 Lincoln Avenue
Buena Park, CA 90620

Project Number:3014888

Protocol:HUD

Sample	Unit ID/Location	Room Equivalent	Side	Component	Substrate	Condition	Lead	Results	Comments
175	Perimeter	Exterior North Side	C	Wall	Concrete	Intact	0.2	Negative	
176	Perimeter	Exterior North Side	C	Garage Door	Metal	Intact	0.2	Negative	
177	Perimeter	Exterior North Side	C	Garage Door Frame	Metal	Intact	0.0	Negative	
178	Perimeter	Exterior North Side	C	Eaves	Metal	Intact	0.2	Negative	
179	Perimeter	Exterior North Side	C	Rafters	Metal	Intact	0.1	Negative	
180	Perimeter	Exterior North Side	C	Fascia	Metal	Intact	0.3	Negative	
181	Perimeter	Exterior North Side	C	Eaves	Metal	Intact	0.0	Negative	
182	Perimeter	Exterior North Side	C	Rafters	Metal	Intact	0.0	Negative	
183	Perimeter	Exterior North Side	C	Fascia	Metal	Intact	0.1	Negative	
184	Perimeter	Exterior North Side	C	Downspout	Metal	DETERIORATED	0.2	Negative	
185	Perimeter	Exterior North Side	C	Bollard	Metal	DETERIORATED	0.6	Negative	
186	Perimeter	Exterior North Side	C	Light Post	Metal	Intact	0.1	Negative	
187	Perimeter	Exterior North Side	C	Bollard	Metal	DETERIORATED	0.4	Negative	
188	Perimeter	Exterior East Side	D	Window Frame	Metal	DETERIORATED	0.1	Negative	Fixed
189	Perimeter	Exterior East Side	D	Wall	Brick	Intact	0.2	Negative	
190	Perimeter	Exterior East Side	D	Wall	Brick	Intact	0.1	Negative	
191	Perimeter	Exterior East Side	D	Wall	Brick	DETERIORATED	0.1	Negative	
192	Perimeter	Exterior East Side	D	Wall	Brick	DETERIORATED	0.5	Negative	
193	Calibration	Calibration End of Job		1.0 mg/cm2 Standard	Wood	Intact	1.1	POSITIVE	
194	Calibration	Calibration End of Job		1.0 mg/cm2 Standard	Wood	Intact	1.0	POSITIVE	
195	Calibration	Calibration End of Job		1.0 mg/cm2 Standard	Wood	Intact	1.0	POSITIVE	

The HUD action level for lead-based paint is 1.0 mg/cm2.
Positive is defined as XRF sampling with levels at or above of 1.0 mg/cm2.

APPENDIX B

CDPH 8552
INSPECTOR'S CERTIFICATES
INSURANCE CERTIFICATE

State of California-Health and Human Services Agency
California Department of Public Health

LEAD HAZARD EVALUATION REPORT

Section 1-Date of Lead Hazard Evaluation 10-10-2019

Section 2-Type of Lead Hazard Evaluation (Check one box only)

☒ Lead inspection ❒ Risk assessment ❒ Clearance inspection ❒ Other (specify)

Section 3-Structure Where Lead Hazard Evaluation Was Conducted

Address (number, street, apartment (if applicable)	City	County	ZIP code
7101 Lincoln Avenue	Buena Park	Orange	90620

Construction date (year) of structure	Type of structure (check one box only)	Children Living in Structure?
1965	❒ Multi-unit building ❒ School or Daycare ❒ Single Family Dwelling ☒ Other (Commercial Structure)	❒ Yes ❒ No ☒ Don't Know

Section 4-Owner of Structure (If business/agency, list contact person)

Name	Telephone number
Scott Bering	(714) 288-7600

Address [number, street, apartment (if applicable)]	City	State	ZIP code
7101 Lincoln Avenue	Buena Park	CA	90620

Section 5-Results of Lead Hazard Evaluation (Check all that apply)

❒ No lead-based paint detected ☒ Intact Lead-based paint detected ❒ Deteriorated Lead-based paint detected

❒ No lead hazards detected ❒ Lead Contaminated Dust Found ❒ Lead Contaminated Soil Found ❒ Other (specify)

Section 6-Individual Conducting Lead Hazard Evaluation

Name	Telephone number
Jeremy Nguyen	714-894-5700

Address (number, street, apartment (if applicable)	City	State	ZIP code
16531 Bolsa Chica, Suite 205	Huntington Beach	CA	92649

CDPH certification number	Signature	Date
LRC-00000593	➢ 	10/15/2019

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7-Attachments

A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
B. Each testing method, device, and sampling procedure used;
C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector

Second copy and attachments retained by owner

Third copy only (no attachments) mailed to:

California Department of Public Health
Childhood Lead Poisoning Prevention Branch Reports
850 Maria Bay Parkway, Building P, Third Floor
Richmond, CA 94804-6403 Fax (510) 620-5656

CDPH 8552 (6/07)

Lead Inspector/Risk Assessor/Project Designer Certifications

BARR&CL-01 LUELFA

ACORD

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY) 03/13/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER License # 0E67768
Legends Environmental Ins. Services
130 Vantis
Suite 250
Aliso Viejo, CA 92656

CONTACT NAME: Margarite Leon
PHONE (A/C, No, Ext): (925) 918-4524 FAX (A/C, No):
E-MAIL ADDRESS: Margarite.Leon@ioausa.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Westchester Surplus Lines Insurance Company	10172
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED
Barr & Clark
16531 Bolsa Chica Street, Suite 205
Huntington Beach, CA 92649

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY						EACH OCCURRENCE $	2,000,000
	CLAIMS-MADE X OCCUR			G46606954002	03/09/2019	03/09/2021	DAMAGE TO RENTED PREMISES (Ea occurrence) $	50,000
							MED EXP (Any one person) $	10,000
							PERSONAL & ADV INJURY $	2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER						GENERAL AGGREGATE $	2,000,000
	POLICY X PRO-JECT LOC						PRODUCTS - COMP/OP AGG $	2,000,000
	OTHER						$	
	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident) $	
	ANY AUTO						BODILY INJURY (Per person) $	
	OWNED AUTOS ONLY / SCHEDULED AUTOS						BODILY INJURY (Per accident) $	
	HIRED AUTOS ONLY / NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident) $	
							$	
	UMBRELLA LIAB OCCUR						EACH OCCURRENCE $	
	EXCESS LIAB CLAIMS-MADE						AGGREGATE $	
	DED RETENTION $						$	
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						PER STATUTE / OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y / N N / A (Mandatory in NH)						E.L. EACH ACCIDENT $	
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE $	
							E.L. DISEASE - POLICY LIMIT $	
A	Contractor Pollution			G46606954002	03/09/2019	03/09/2021	Each Claim	2,000,000
A	Professional Liabili			G46606954002	03/09/2019	03/09/2021		2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
*Professional Liability is written on a Claims Made basis.

CERTIFICATE HOLDER

NOTE: This is a copy of our general and professional liability insurance. Your city or company's specific insurance is on file.

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Allstate.
You're in good hands.

CI CW A02 10 11

CERTIFICATE OF INSURANCE

This certificate is issued for informational purposes only. It certifies that the policies listed in this document have been issued to the Named Insured. It does not grant any rights to any party nor can it be used, in any way, to modify coverage provided by such policies. Alteration of this certificate does not change the terms, exclusions or conditions of such policies. Coverage is subject to the provisions of the policies, including any exclusions or conditions, regardless of the provisions of any other contract, such as between the certificate holder and the Named Insured. The limits shown below are the limits provided at the policy inception. Subsequent paid claims may reduce these limits.

Certificate Holder:	**Named Insured:**
This is a copy of our general auto insurance. Your company or city's specific insurance is on file.	BARR & CLARK, INC. 16531 BOLSA CHICA ST STE 205 HUNTINGTON BEACH CA 92649-3595

Automobile Liability

Insurer Name: Allstate Insurance Company

Policy Number: 648761551

	1 – Any Auto		2 – Owned Autos Only		3 – Owned Priv. Pass. Autos Only
	4 – Owned Autos Other Than Priv. Pass. Autos Only		5 – Owned Autos Subject to No Fault		6 – Owned Autos Subject to a Compulsory UM Law
X	7 – Specifically Described Autos	X	8 – Hired Autos Only	X	9 – Nonowned Autos Only

Policy Effective Date : **Policy Expiration Date:**

Limits of Insurance:	$1,000,000	Combined Single Limit (each accident)	
	BI Per Person	BI Per Accident	PD Per Accident

Description of Operations/Locations/Vehicles/Endorsements/Special Provisions

Interested Party Type: Additional Insured - All Other

THIS CERTIFICATE DOES NOT GRANT ANY COVERAGE OR RIGHTS TO THE CERTIFICATE HOLDER.

IF THIS CERTIFICATE INDICATES THAT THE CERTIFICATE HOLDER IS AN ADDITIONAL INSURED, THE POLICY(IES) MUST EITHER BE ENDORSED OR CONTAIN SPECIFIC LANGUAGE PROVIDING THE CERTIFICATE HOLDER WITH ADDITIONAL INSURED STATUS. THE CERTIFICATE HOLDER IS AN ADDITIONAL INSURED ONLY TO THE EXTENT INDICATED IN SUCH POLICY LANGUAGE OR ENDORSEMENT.

Producer: SMART MONEY SOL INC	
Authorized Representative:	**Date:**

POLICYHOLDER COPY

SP

STATE COMPENSATION INSURANCE FUND

P.O. BOX 8192, PLEASANTON, CA 94588

CERTIFICATE OF WORKERS' COMPENSATION INSURANCE

GROUP:
POLICY NUMBER: 1917813
CERTIFICATE ID: 243

This is a copy of our general worker's compensation insurance. Your company or city's specific insurance is on file.

This is to certify that we have issued a valid Workers' Compensation insurance policy in a form approved by the California Insurance Commissioner to the employer named below for the policy period indicated.

This policy is not subject to cancellation by the Fund except upon 30 days advance written notice to the employer.

We will also give you 30 days advance notice should this policy be cancelled prior to its normal expiration.

This certificate of insurance is not an insurance policy and does not amend, extend or alter the coverage afforded by the policy listed herein. Notwithstanding any requirement, term or condition of any contract or other document with respect to which this certificate of insurance may be issued or to which it may pertain, the insurance afforded by the policy described herein is subject to all the terms, exclusions, and conditions, of such policy.

Authorized Representative

President and CEO

EMPLOYER'S LIABILITY LIMIT INCLUDING DEFENSE COSTS: $1,000,000 PER OCCURRENCE.

ENDORSEMENT #0015 ENTITLED ADDITIONAL INSURED EMPLOYER EFFECTIVE IS ATTACHED TO AND FORMS A PART OF THIS POLICY. NAME OF ADDITIONAL INSURED:

ENDORSEMENT #2085 ENTITLED CERTIFICATE HOLDERS' NOTICE EFFECTIVE IS ATTACHED TO AND FORMS A PART OF THIS POLICY.

EMPLOYER

BARR & CLARK, INC
16531 BOLSA CHICA ST STE 205
HUNTINGTON BEACH CA 92649

SP

[P14,SP]

(REV.7-2014)

APPENDIX C

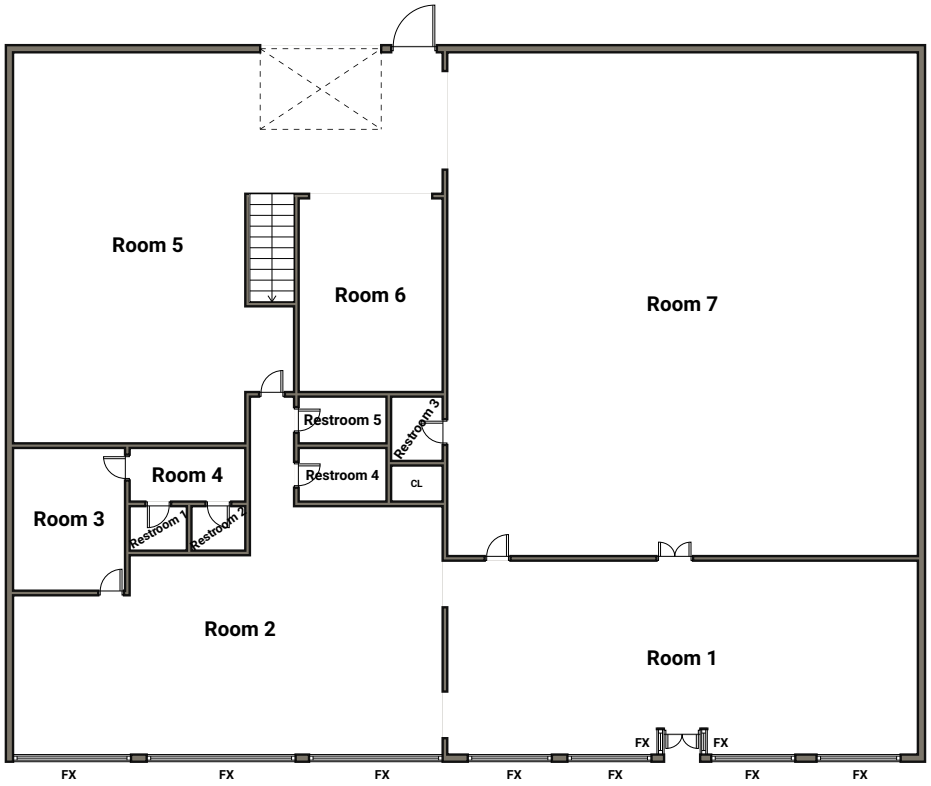
MAP(S)

C

1st Floor

B

D



A

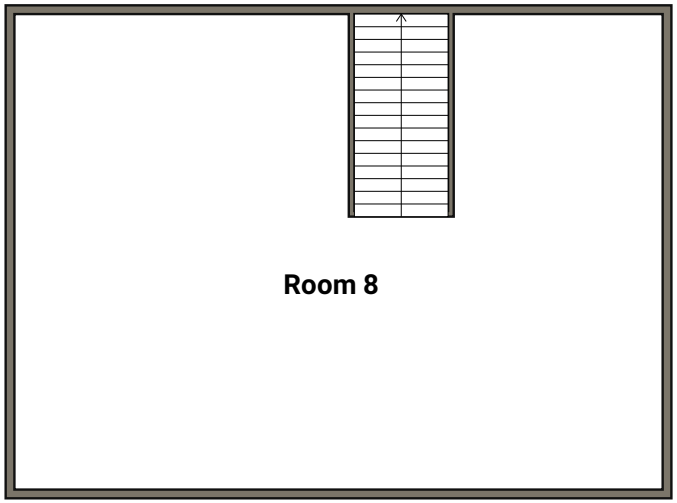
N

Window Key:
FX = Fixed

Commercial Building
7101 Lincoln Avenue
Buena Park, CA
Project #3014888

C

2nd
Floor



B

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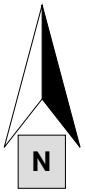

Commercial Building
7101 Lincoln Avenue
Buena Park, CA
Project #3014888

Attachment 8. USFWS IPaC Database Search

IPaC **U.S. Fish & Wildlife Service**

IPaC resource list

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.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Orange County, California

Local office

Carlsbad Fish And Wildlife Office

(760) 431-9440
(760) 431-5901

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

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[1] 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[2]).

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.

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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:

Mammals

NAME	STATUS
Pacific Pocket Mouse *Perognathus longimembris pacificus* Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8080	Endangered

Birds

NAME	STATUS
California Least Tern *Sterna antillarum browni* Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/8104	Endangered
Coastal California Gnatcatcher *Polioptila californica californica* Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/8178	Threatened
Western Snowy Plover *Charadrius nivosus nivosus* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/8035	Threatened

Insects

NAME	STATUS
Monarch Butterfly *Danaus plexippus* Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/9743	Candidate

Flowering Plants

NAME	STATUS
Salt Marsh Bird's-beak Cordylanthus maritimus ssp. maritimus Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/6447	Endangered
Ventura Marsh Milk-vetch Astragalus pycnostachyus var. lanosissimus Wherever found There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/1160	Endangered

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.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

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:

- Birds of Conservation Concern https://www.fws.gov/program/migratory-birds/species
- 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

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, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Allen's Hummingbird Selasphorus sasin This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9637	Breeds Feb 1 to Jul 15
Belding's Savannah Sparrow Passerculus sandwichensis beldingi 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/8	Breeds Apr 1 to Aug 15
Bullock's Oriole Icterus bullockii This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA	Breeds Mar 21 to Jul 25
California Gull Larus californicus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 1 to Jul 31

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.

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

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

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

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

Tricolored Blackbird Agelaius tricolor — Breeds Mar 15 to Aug 10
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
https://ecos.fws.gov/ecp/species/3910

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

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 and understand the FAQ "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.

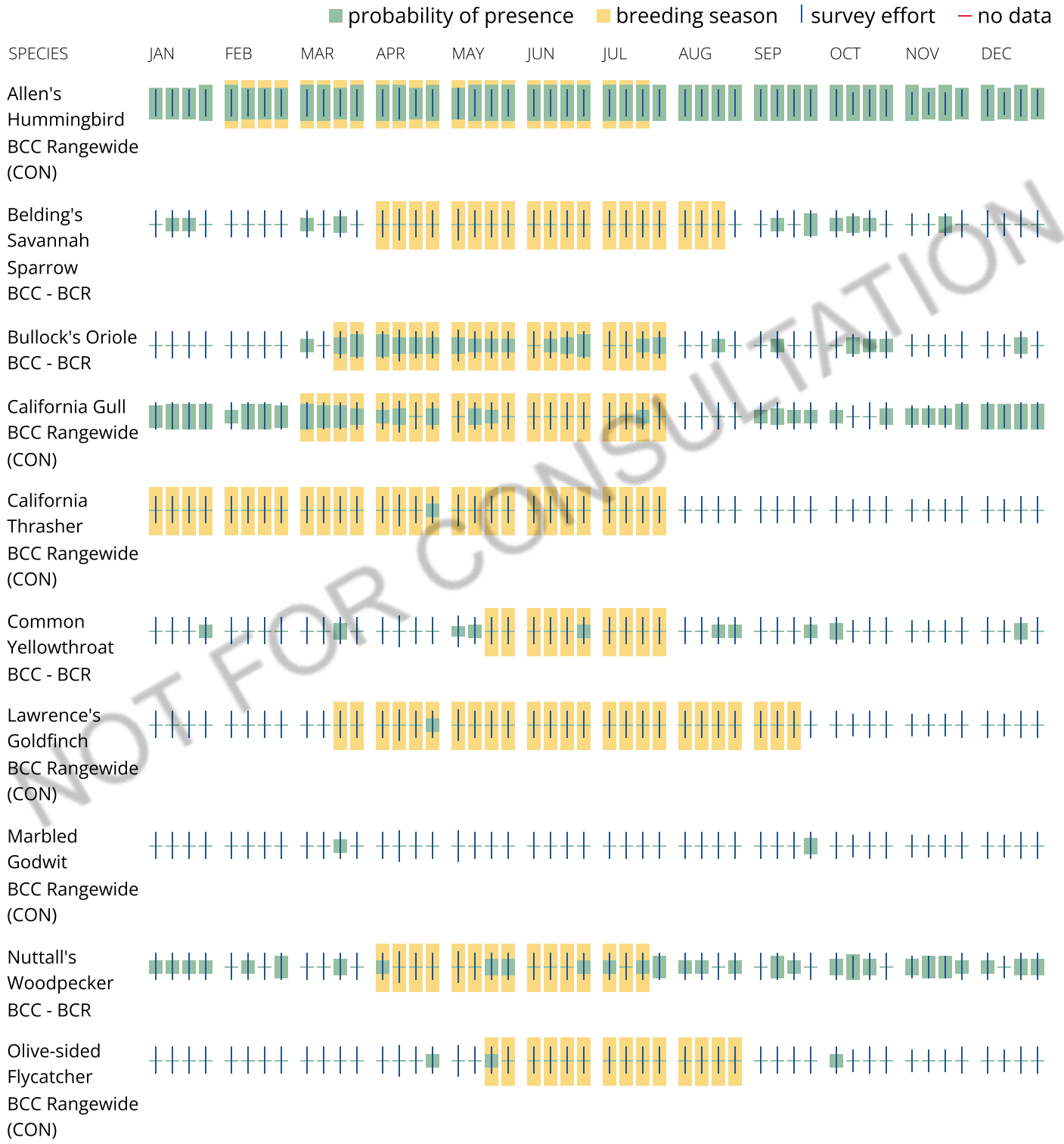
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

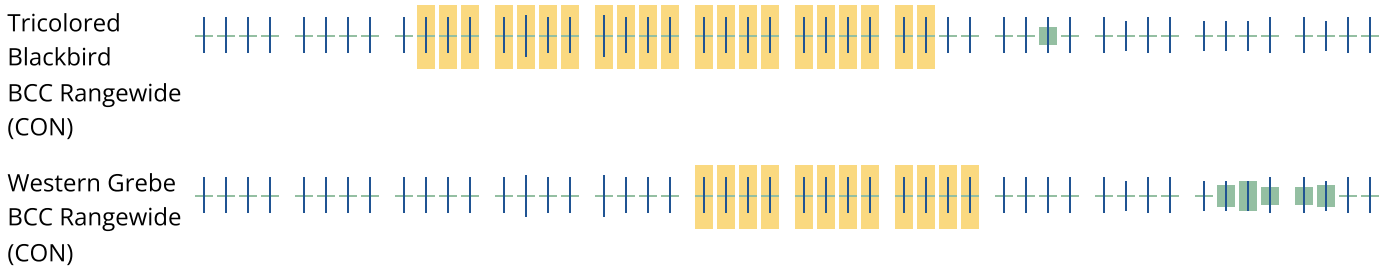
No Data (–)

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 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.

Coastal Barrier Resources System

Projects within the John H. Chafee Coastal Barrier Resources System (CBRS) may be subject to the restrictions on Federal expenditures and financial assistance and the consultation requirements of the Coastal Barrier Resources Act (CBRA) (16 U.S.C. 3501 et seq.). For more information, please contact the local Ecological Services Field Office or visit the CBRA Consultations website. The CBRA website provides tools such as a flow chart to help determine whether consultation is required and a template to facilitate the consultation process.

There are no known coastal barriers at this location.

Data limitations

The CBRS boundaries used in IPaC are representations of the controlling boundaries, which are depicted on the official CBRS maps. The boundaries depicted in this layer are not to be considered authoritative for in/out determinations close to a CBRS boundary (i.e., within the "CBRS Buffer Zone" that appears as a hatched area on either side of the boundary). For projects that are very close to a CBRS boundary but do not clearly intersect a unit, you may contact the Service for an official determination by following the instructions here: https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation

Data exclusions

CBRS units extend seaward out to either the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward extent of the units is not shown in the CBRS data, therefore projects in the offshore areas of units (e.g., dredging, breakwaters, offshore wind energy or oil and gas projects) may be subject to CBRA even if they do not intersect the CBRS data. For additional information, please contact CBRA@fws.gov.

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.

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the NWI map to view wetlands at this location.

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 tuberficid 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 9. CalEPA Regulated Sites and Chemical Storage Sites

CalEPA Map Screenshot

Location of chemical storage facilities within 1 mile of proposed project area

Search By Keyword

SEARCH RESULTS (50)

Site

Site
DOWNLOAD

Export a CSV file containing information for the current sites.

Site Regulated Programs
DOWNLOAD

Export a CSV file containing all site regulated programs for the current sites.

Affiliations
DOWNLOAD

Export a CSV file containing all affiliations (i.e., contacts and organizations) for the current sites.

Coordinates
DOWNLOAD

Export a CSV file containing all sites containing multiple coordinates. This does not include facilities with their primary coordinate.

Chemicals
DOWNLOAD

Export a CSV file containing the top 2,000 chemicals for the current sites.

Advanced Search Criteria

CRITERIA (0) FILTERS (2)

- [ ] Regulatory Programs 2
- [x] Aboveground Petroleum Storage 1
- [ ] Agriculture Discharge 0
- [ ] Animal Wastewater Discharge 0
- [x] Chemical Storage Facilities 50
- [ ] Cleanup Program Site 0
- [ ] Construction Storm Water 0
- [ ] Corrective Action 0
- [ ] Department Of Defense 0
- [ ] Forestry & Silviculture 0
- [ ] Hazardous Chemical Management 0
- [ ] Hazardous Waste 0
- [ ] Hazardous Waste Generator 33
- [ ] Hazardous Waste Onsite Treatment 0

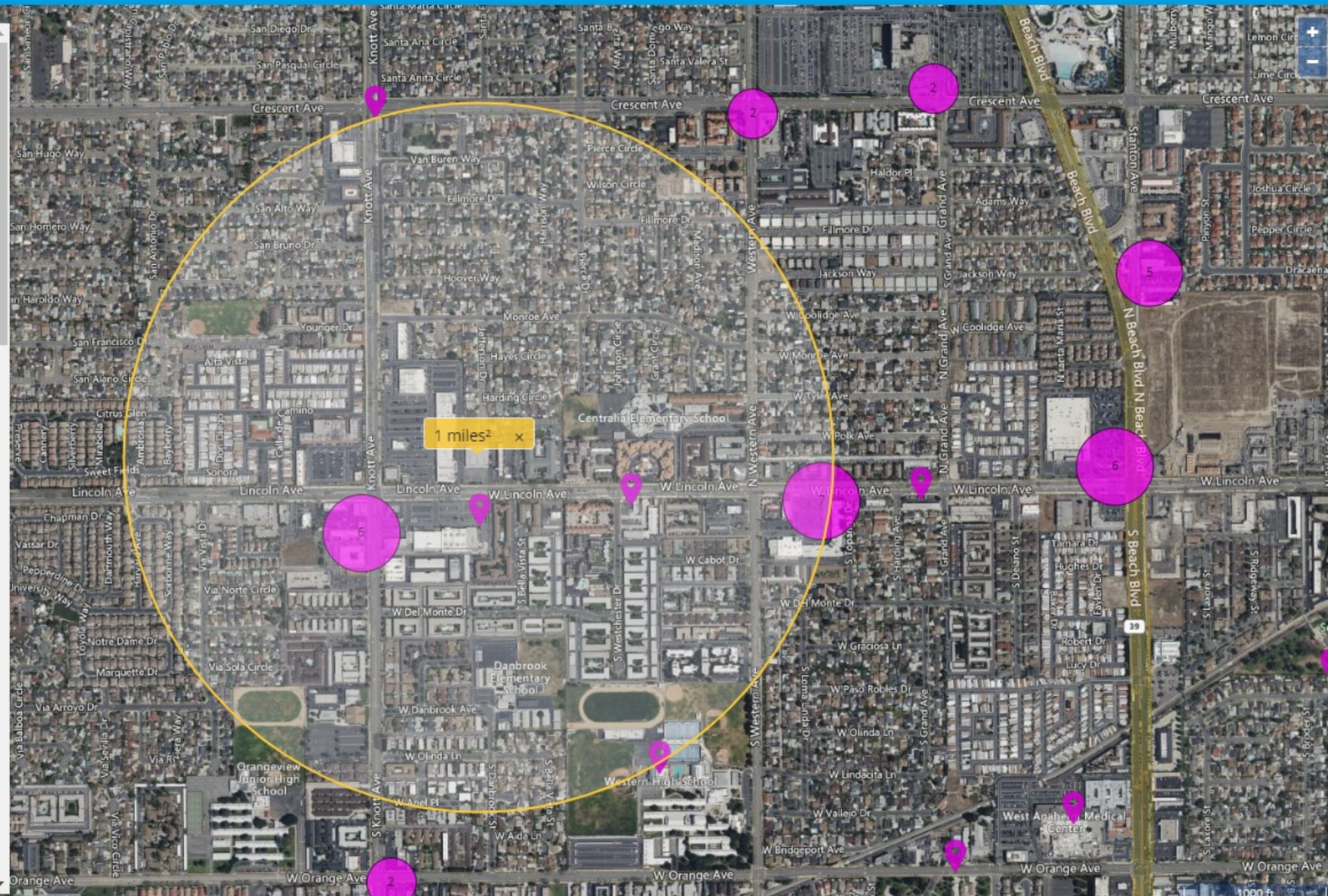


Table 1: CalEPA Chemical Storage Sites within 1-Mile Proposed Project Site

	Site Name	Site Address	Chemicals Onsite	Max Daily Amount/Unit (CalEPA)	Hazardous Accoding to CFR § 51.201	ASD Calcuated Distance (feet)	Measured Distance from Project Site (feet)
1	CosmoProf #9525	3150 W LINCOLN AVE STE 120 ANAHEIM CA 92801	Misc. Flammable Liquids	0-11 Gallons	Yes	42.25	2,245.36
			Misc. Aerosols	0-11 Gallons	No	n/a	n/a
			Hydrogen Peroxide <8%	0-11 Gallons	No	n/a	n/a
			Dipotassium Persulfate	0-99 Pounds	No	n/a	n/a
2	Armen's Auto & Body LLC	3180 W LINCOLN AVE ANAHEIM CA 92801	Waste Oil	120- 599 Gallons	Yes	223.4	1,990.14
			Moto Oil	60- 119 Gallons	No	n/a	n/a
3	McDonald's #938	3210 W LINCOLN AVE ANAHEIM CA 92801	Carbon Dioxide	500- 900 Pounds	No	n/a	n/a
4	Del Taco #907	3181 W LINCOLN AVE ANAHEIM CA 92801	Carbon Dioxide	2600- 12999 Cubic Feet	No	n/a	n/a
5	Carl's Jr. #357	8991 KNOTT AVE BUENA PARK CA 90620	Carbon Dioxide	12- 59 Gallons	No	n/a	n/a
6	Northgate Markets #14	6991 LINCOLN AVE BUENA PARK CA 90620	Propane	60- 119 Gallons	Yes	113.94	741.38
			Helium	0- 2599 Cubic Feet	No	n/a	n/a
			Freon	2600- 12999 Cubic Feet	No	n/a	n/a
			Acetic Acid	120- 599 Gallons	Yes	223.4	741.38
7	Just Tires 8658	6962 WEST LINCOLN AVENUE BUENA PARK CA 90620	Waste Ethylene Glycol	12- 59 Gallons	No	n/a	n/a
			Motor Oil	120- 599 Gallons	No	n/a	n/a
			Lubricating Oils (used)	120- 599 Gallons	No	n/a	n/a
			Drained Used Oil Filters	100- 499 Pounds	No	n/a	n/a
			Automoatic Transmission Fluid	60- 119 Gallons	No	n/a	n/a
8	G&M Oil Co., LLC #113	3490 W LINCOLN AVE ANAHEIM CA 92801	Unleaded Gasoline	12,000- 59,999 Gallons	No	n/a	n/a
			Diesel Fuel No. 2	9,000- 11,999 Gallons	No	n/a	n/a
9	Knott Avenue Care Center	9021 KNOTT AV BUENA PARK CA 90620	Diesel Fuel	120- 599 Gallons	Yes	223.4	1,144.79
10	Verizon Wireless: Cypress Relo	138 S. KNOTT AVENUE ANAHEIM CA 92804	Lead Acid Batteries	60- 119 Gallons	No	n/a	n/a
			Diesel Fuel No. 2	120- 599 Gallons	Yes	223.4	1,028.06
11	B&L Fuel Mart, Inc.	8510 KNOTT AVE BUENA PARK CA 90620	Natural Gasoline	12,000- 59,999 gallons	No	n/a	n/a
			Diesel Fuel No. 2	12,000- 59,999 gallons	No	n/a	n/a
12	O'Reilly Auto Parts #3078	3400 W LINCOLN AVE ANAHEIM CA 92801	Used Motor Oil	120- 599 Gallons	No	n/a	n/a
			Used Absorbent Containing Oil	500- 999 Pounds	No	n/a	n/a
13	Taco Bell	3270 W LINCOLN AVE ANAHEIM CA 92801	Carbon Dioxide	100- 499 Pounds	No	n/a	n/a

CalEPA Map Screenshots

Distance from proposed project area to chemical storage sites

Search By Keyword

SEARCH RESULTS (13)

Measure Tool

Select the line, circle, or polygon tool below and then click the map to measure your first point - double-click to complete the measurement.

LINE | CIRCLE | POLYGON

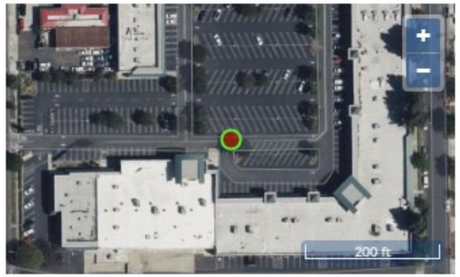
feet

CLEAR MEASUREMENTS

COSMOPROF #9525

3150 W LINCOLN AVE STE 120
ANAHEIM CA 92801

SHOW MORE INFORMATION >



Regulatory Programs

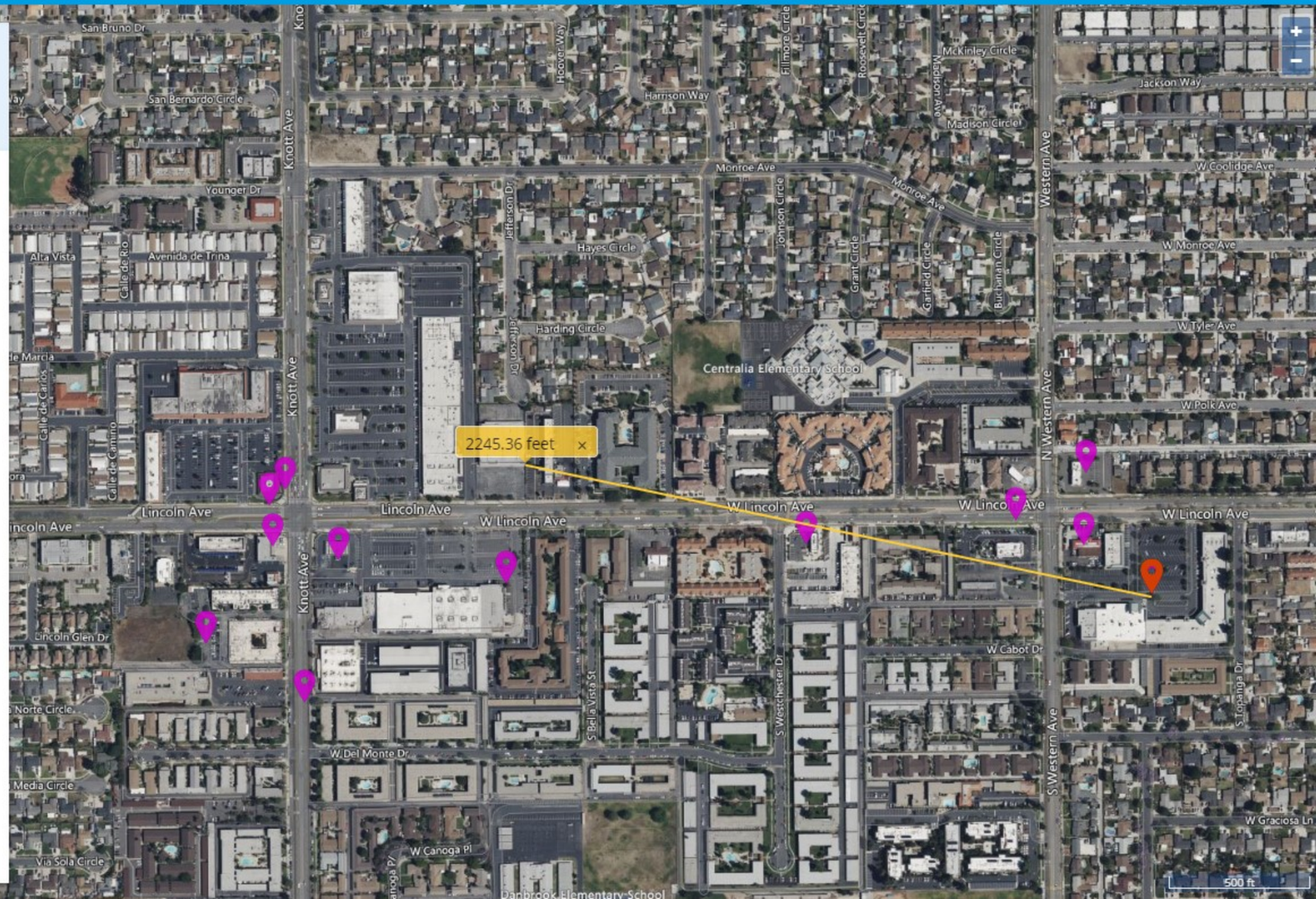
Chemical Storage Facilities
Hazardous Waste Generator

Evaluations

Evaluations With Violations	1
Evaluations Without Violations	1

Violations

Total	1



Search By Keyword

SEARCH RESULTS (13)

Measure Tool

Select the line, circle, or polygon tool below and then click the map to measure your first point - double-click to complete the measurement.

LINE | CIRCLE | POLYGON

feet

CLEAR MEASUREMENTS

Armen's Auto & Body LLC

3180 W LINCOLN AVE
ANAHEIM CA 92801

SHOW MORE INFORMATION >

Regulatory Programs

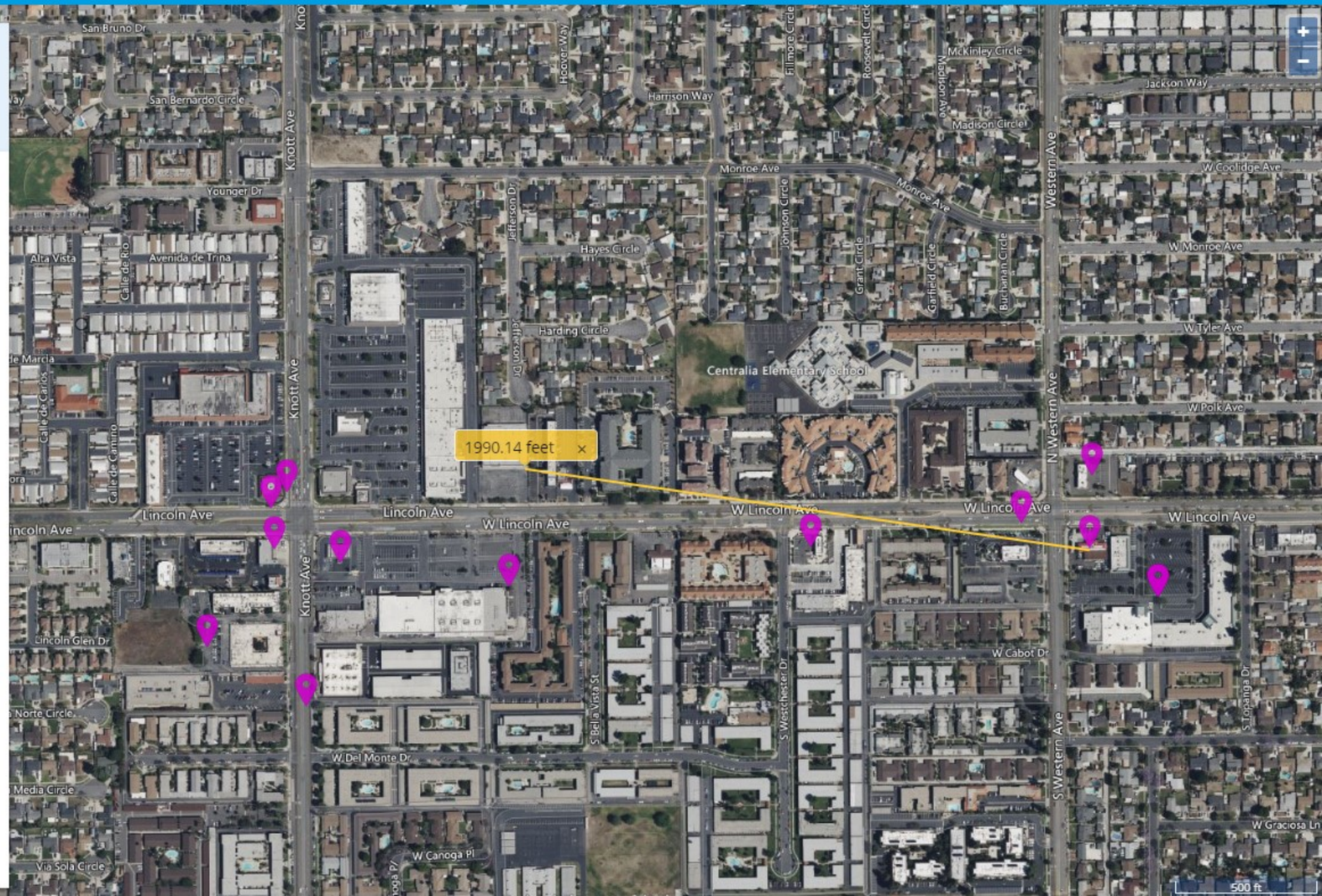
Chemical Storage Facilities
Hazardous Waste Generator

Evaluations

Evaluations With Violations	2
Evaluations Without Violations	3

Violations

Open	1
Resolved	1



Search By Keyword

SEARCH RESULTS (7)

Measure Tool

Select the line, circle, or polygon tool below and then click the map to measure your first point - double-click to complete the measurement.

LINE | CIRCLE | POLYGON

feet

CLEAR MEASUREMENTS

Northgate Markets #14

6991 LINCOLN AVE
BUENA PARK CA 90620

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Regulatory Programs

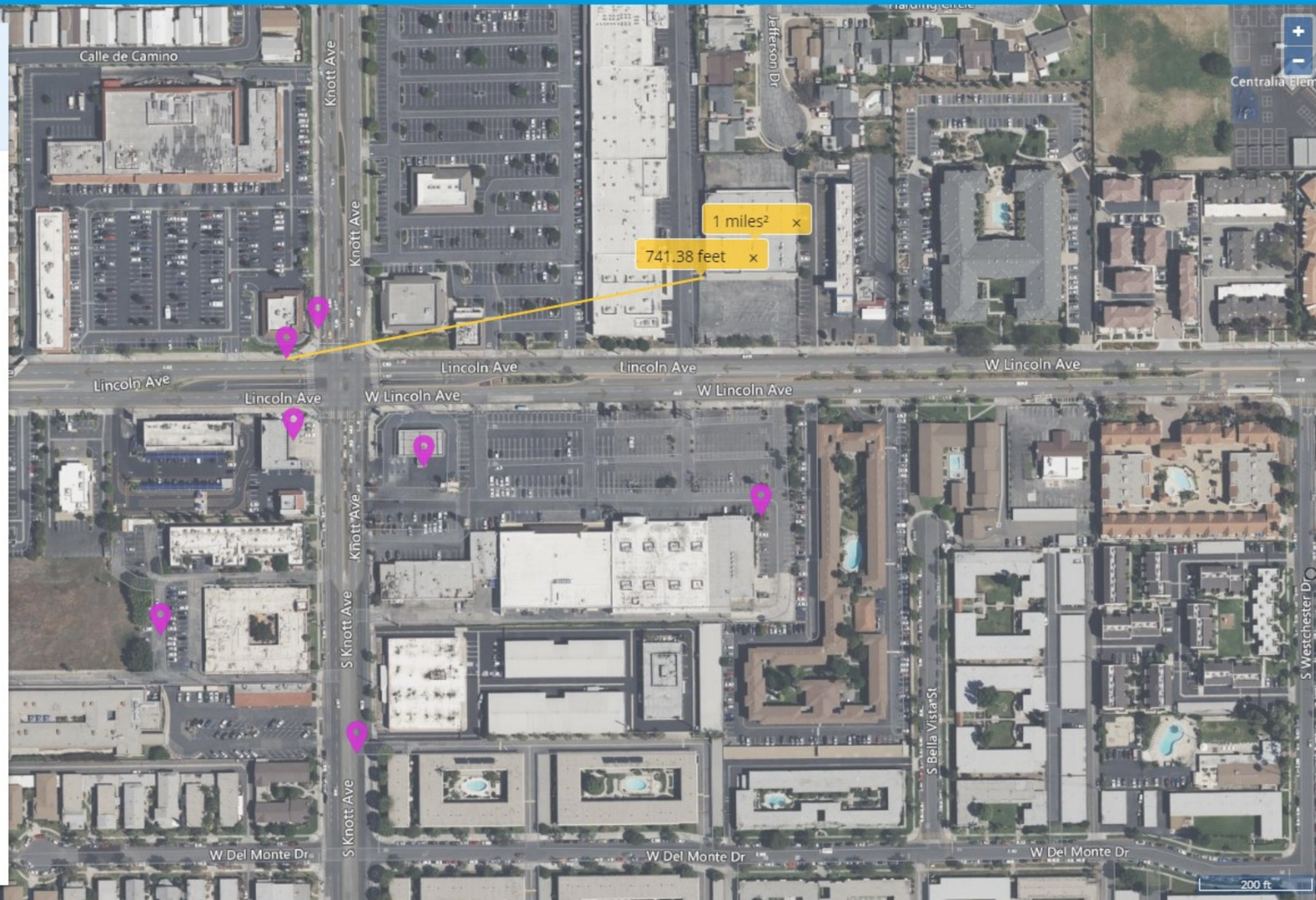
Chemical Storage Facilities
Hazardous Waste Generator

Evaluations

Evaluations With Violations	1
Evaluations Without Violations	3

Violations

Total	1



Search By Keyword

SEARCH RESULTS (7)

Measure Tool

Select the line, circle, or polygon tool below and then click the map to measure your first point - double-click to complete the measurement.

LINE | CIRCLE | POLYGON

feet

CLEAR MEASUREMENTS

KNOTT AVENUE CARE CENTER

9021 KNOTT AV
BUENA PARK CA 90620

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Regulatory Programs

Chemical Storage Facilities

Evaluations

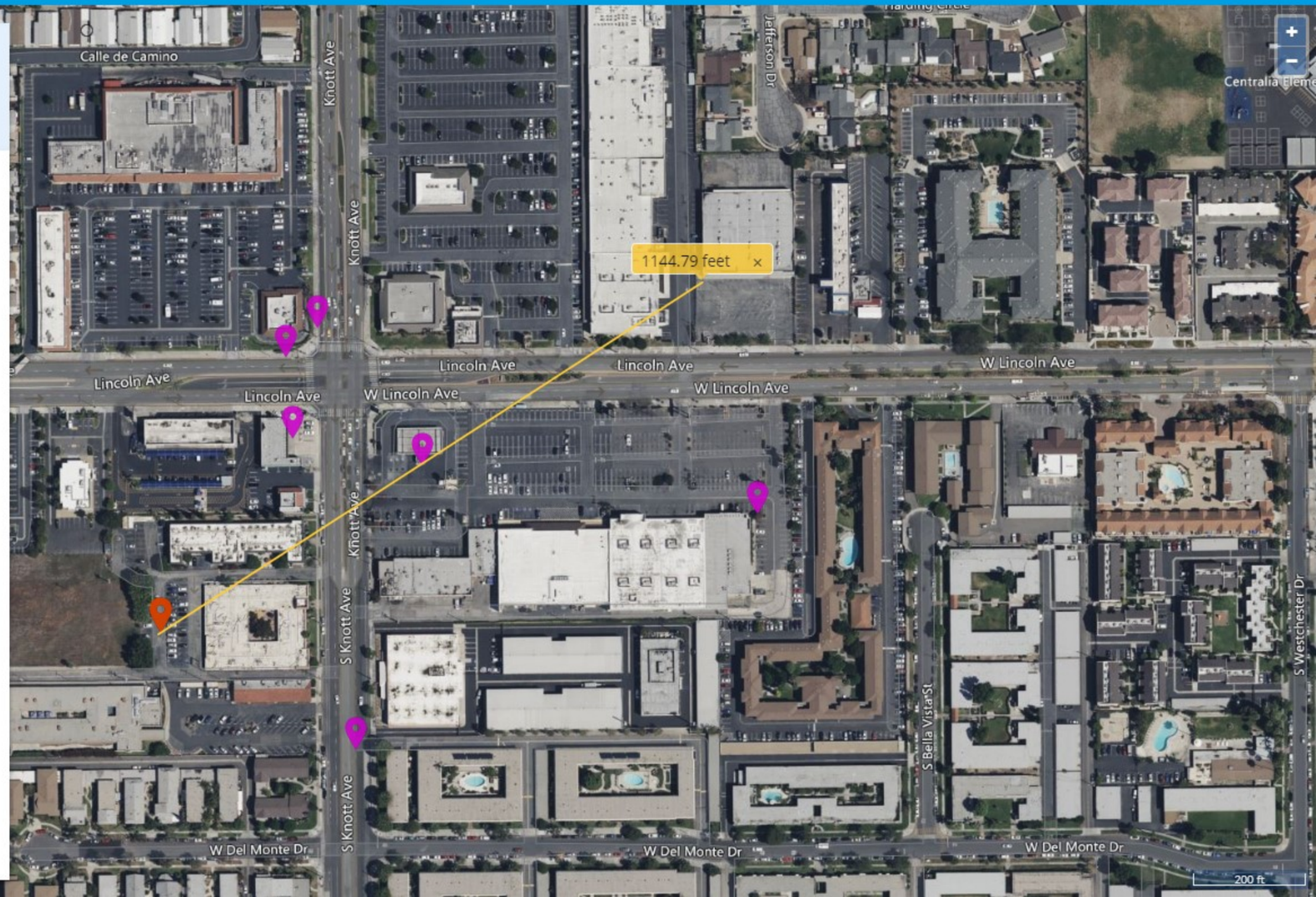
Evaluations With Violations	2
Evaluations Without Violations	8

Violations

Open	1
Resolved	2

Compliance

Total	1



Search By Keyword

SEARCH RESULTS (7)

Measure Tool

Select the line, circle, or polygon tool below and then click the map to measure your first point - double-click to complete the measurement.

LINE | CIRCLE | POLYGON

feet

CLEAR MEASUREMENTS

Verizon Wireless: Cypress Relo

138 S. KNOTT AVENUE
ANAHEIM CA 92804

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Regulatory Programs

Chemical Storage Facilities

Evaluations

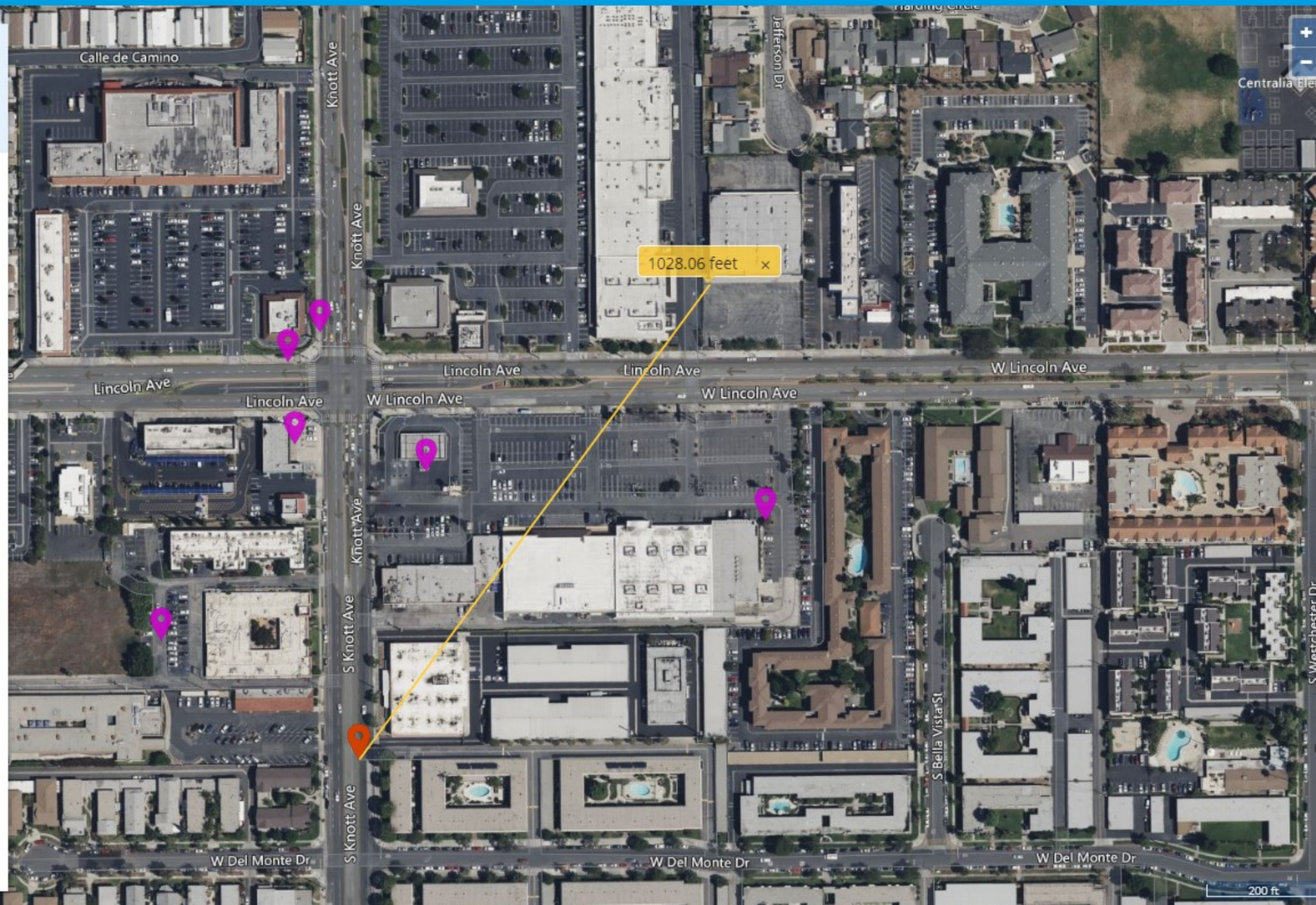
Evaluations With Violations	1
Evaluations Without Violations	2

Violations

Total	2

Compliance

Total	1



HUD Acceptable Separation Distance (ASD) Assessment Tool Calculations

CosmoProf #9525

Chemical Storage: Misc. flammable liquids (0- 11 gal.)

HUD EXCHANGE

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

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?	11
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)	42.25
ASD for Thermal Radiation for Buildings (ASDBPU)	6.25
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

For mitigation options, please click on the following link: Mitigation Options

Armen's Auto & Body LLC

Chemical Storage: Waste oil (120- 599 gal.)

HUD EXCHANGE

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

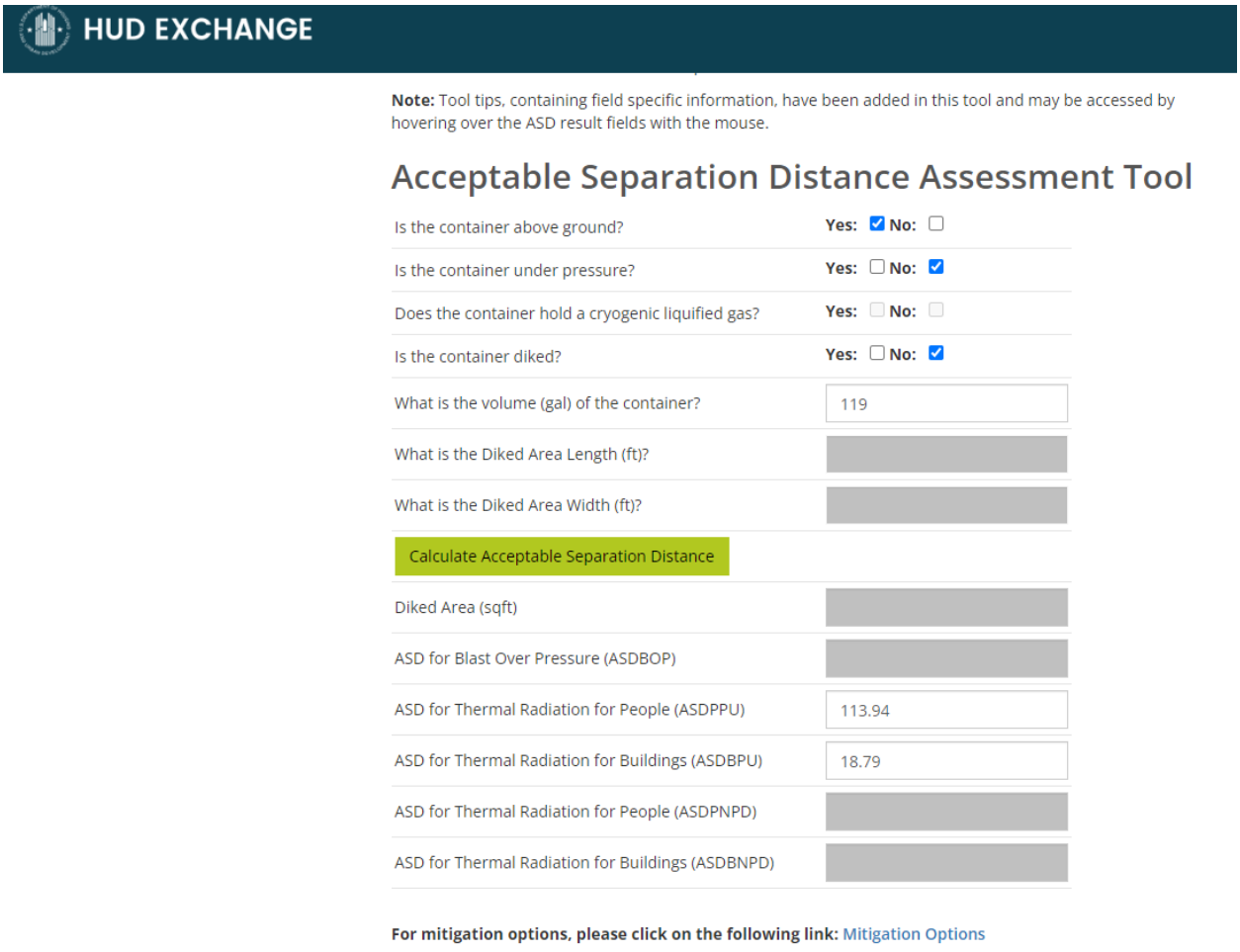
Acceptable Separation Distance Assessment Tool

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)	

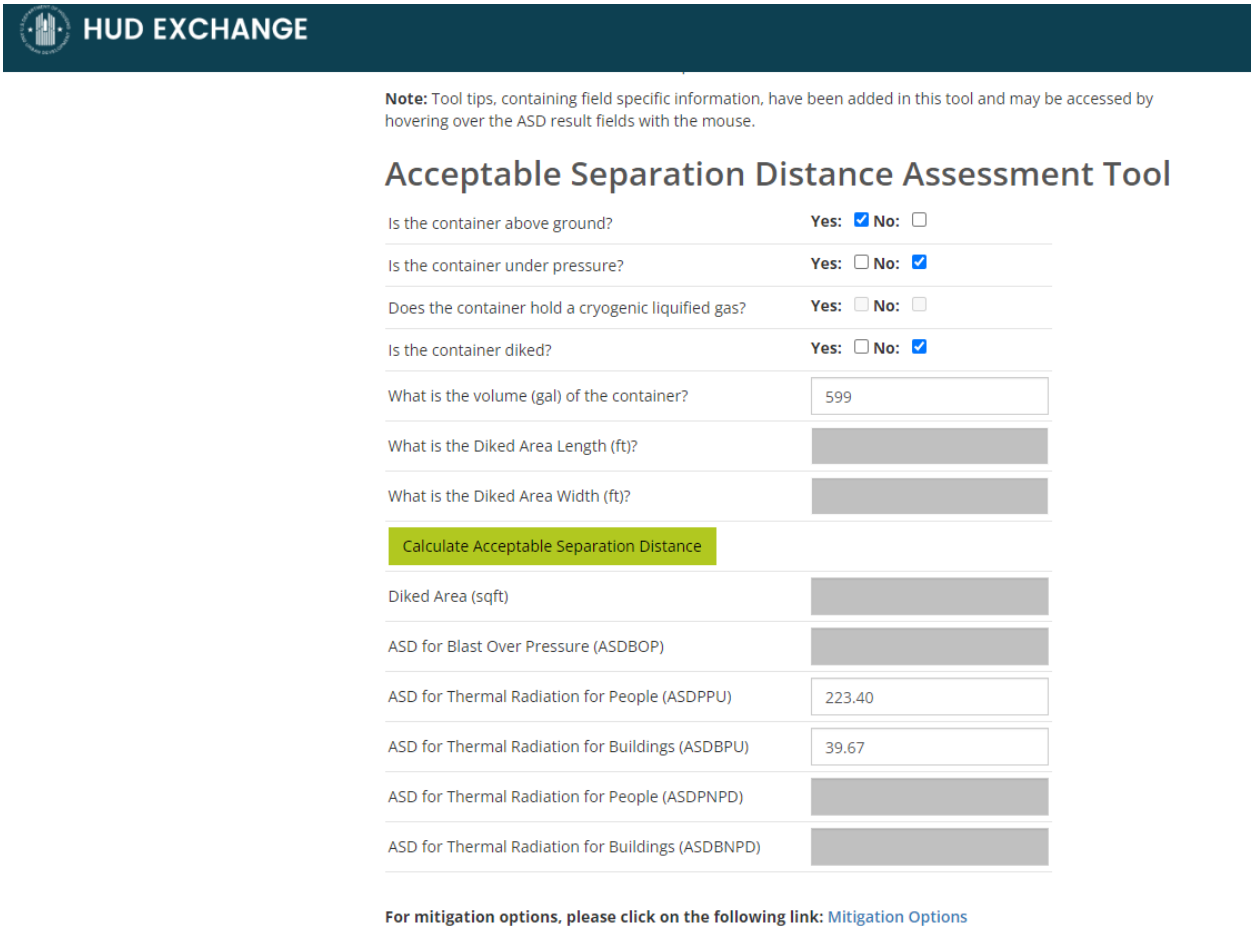
For mitigation options, please click on the following link: Mitigation Options

Northgate Markets #14

Chemical Storage: Propane (60- 119 gal.)



Chemical Storage: Acetic acid (120- 599 gal.)



Knott Avenue Care Center

Chemical Storage: Diesel fuel (120- 599 gal.)

HUD EXCHANGE

Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

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)	

For mitigation options, please click on the following link: Mitigation Options

Verizon Wireless: Cypress Relo

Chemical Storage: Diesel fuel No.2

HUD EXCHANGE

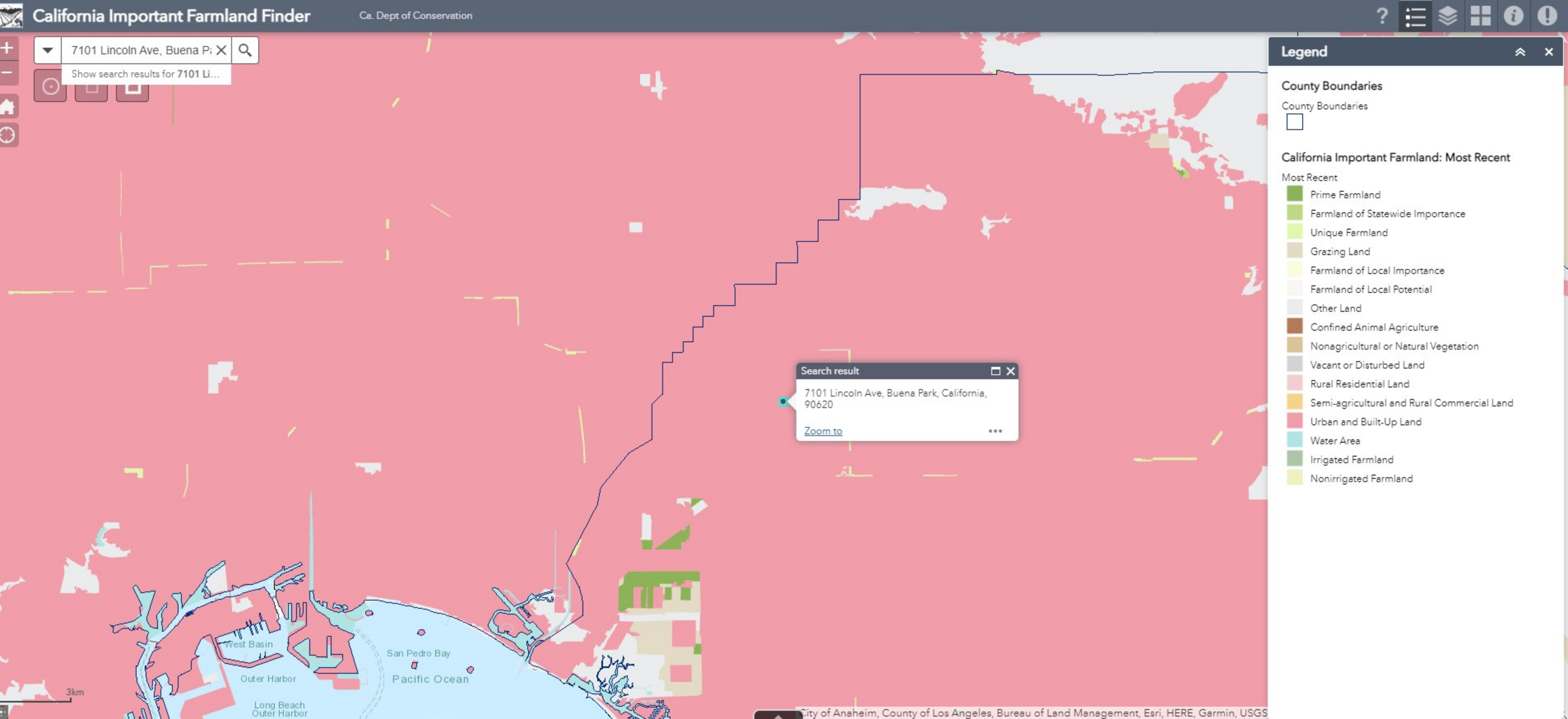
Note: Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

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)	

For mitigation options, please click on the following link: Mitigation Options

Attachment 10. California Important Farmland Finder


California Important Farmland Finder
Ca. Dept of Conservation
7101 Lincoln Ave, Buena Pi
Show search results for 7101 Li...
Search result
7101 Lincoln Ave, Buena Park, California, 90620
Zoom to
West Basin
Outer Harbor
San Pedro Bay
Pacific Ocean
Long Beach Outer Harbor
3km
City of Anaheim, County of Los Angeles, Bureau of Land Management, Esri, HERE, Garmin, USGS
Legend
County Boundaries
County Boundaries
California Important Farmland: Most Recent
Most Recent
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

Attachment 11. State Historic Preservation Office Letter

From: Pries, Shannon@Parks
To: Harder, Suzanne
Subject: RE: Request for SHPO Concurrence Lincoln Avenue Apartments Buena Park
Date: Tuesday, December 20, 2022 3:42:35 PM
Attachments: image001.png
image002.png
image005.png

Good afternoon Sue,

Unfortunately, due to high number of incoming projects the CA SHPO was unable to provide comments on this undertaking in a timely manner. Please site 36 CFR Part 800.3(c)(4) *Failure of the SHPO/THPO to respond* in the County's environmental record. You can include this email to demonstrate the County's efforts to consult and our inability to review the project and provide consultation comments within 30 days. Let me know if you have any questions, or concerns about this recommendation.

Wishing you a happy holiday season.

Best,
Shannon

Shannon Lauchner Pries
Historian II
Local Government & Environmental Compliance
California Office of Historic Preservation
shannon.pries@parks.ca.gov
www.parks.ca.gov

From: Harder, Suzanne <suzanne.harder@occr.ocgov.com>
Sent: Monday, December 19, 2022 2:48 PM
To: Pries, Shannon@Parks <Shannon.Pries@parks.ca.gov>
Cc: Hernandez, Ernest <Ernest.Hernandez@occr.ocgov.com>
Subject: RE: Request for SHPO Concurrence Lincoln Avenue Apartments Buena Park

Hi Shannon:

Happy Holidays! Just checking in with you regarding this Concurrence Request.

Thanks,

Sue Harder
Community Development Compliance and Environmental Coordinator | Housing and Community Development
Phone: 714-480-2876 | **Email**: suzanne.harder@occr.ocgov.com
1501 E St Andrew Place, Santa Ana, CA 92705

From: Harder, Suzanne
Sent: Thursday, November 10, 2022 9:27 AM
To: Pries, Shannon@Parks <Shannon.Pries@parks.ca.gov>
Cc: Hernandez, Ernest <ernest.hernandez@occr.ocgov.com>
Subject: Request for SHPO Concurrence Lincoln Avenue Apartments Buena Park

Hello Shannon:

Attached is the SHPO Concurrence Request packet for **Lincoln Avenue Apartments** a new construction apartment building in the **City of Buena Park**, for your review.

The project site has not been subjected to any previous studies and the cultural resource sensitivity of the project site is unknown according to South Central Coastal Information Center.

Please let me know if you need any additional information or if you have any questions.

Thank you!

Sue Harder

Community Development Compliance and Environmental Coordinator | Housing and Community Development
Phone: 714-480-2876 | **Email**: suzanne.harder@occr.ocgov.com
1501 E St Andrew Place, Santa Ana, CA 92705

Attachment 12. Technical Noise Memorandum

1 SW COLUMBIA STREET
PORTLAND, OREGON 97204
T 971.930.1700

MEMORANDUM

To:	Kristin Arakawa, Dudek
From:	Mike Greene, Dudek
Subject:	Technical Noise Memo – Lincoln Avenue Apartments Project
Date:	12/07/2022
cc:	Jonathan Rigg, Dudek
Attachment(s):	Figure 1, Project Location
	Figure 2, Noise Model Receiver Locations
	Attachment A; Traffic Noise Model Input/Output Data

This technical noise memo summarizes the results of the noise analysis conducted for onsite uses of the Lincoln Avenue Apartments Project in Buena Park, California.

1 Background

1.1 Project Description

The Lincoln Avenue Apartment Project (referred to throughout this Environmental Assessment as the proposed project, or project) is located at 7101 Lincoln Avenue in the City of Buena Park, Orange County, California (refer to Figure 1, Project Location). The proposed project site consists of 1.35 acres and is currently occupied by a single-story commercial building (approximately 21,600 square feet) and asphalt-paved drive and parking areas. The site is bordered by commercial properties to the west and east, and residential properties to the north. Lincoln Avenue and commercial properties, such as an O'Reilly Auto Parts, Grocery Store, and El Dorado Inn border the southern boundary of the proposed development.

The proposed project would convert the existing vacant commercial building and associated parking improvements into an affordable multifamily residential rental project with 55 family units, including 10 Permanent Supportive Housing (PSH) units, and 89 parking stalls. The family units would be divided into 15 one-bedroom units, 23 two-bedroom units, and 17 three-bedroom units. Residents of the new affordable housing development would have access to onsite amenities, including a leasing office for professional onsite management, community room, computer room, tot lot, BBQ pavilion, interconnected pedestrian walkways, as well as active and passive green open spaces. The project site is situated near numerous community amenities, such as a grocery store, public transit, a pharmacy, gas station, discount store, and a diverse range of restaurants, among other businesses. The existing single-story building would be replaced by 4 three-story garden style walkup buildings in a contemporary mission revival style with tuck under parking.

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. 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.

2 Noise Analysis Methodology

2.1 Applicable Noise Standards

Because the proposed project may receive funding from the U.S. Department of Housing and Urban Development (HUD), the noise standards specified by HUD were used for this analysis. 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.

The interior noise standard is 45 dBA DNL.

2.2 Preliminary Noise Modeling

The primary noise source in the project vicinity is motor vehicle traffic. The southern façades of the proposed residential units would face Lincoln Avenue. Additionally, the next-nearest arterial roadway (Knott Avenue) is located approximately 600 feet to the west. The other nearby roads are minor "feeder" streets which would have a negligible contribution to the on-site noise environment. The nearest rail line is located more than 3 miles away and the nearest airports, Los Alamitos Army Airfield and Fullerton Municipal Airports, are each located approximately 3 miles away. Thus, noise from rail and the airports would have a negligible contribution to the on-site noise environment.

An initial noise analysis of traffic noise from Lincoln Avenue and Knott Avenue carried out using HUD's DNL Calculator[1] indicated that worst-case exterior building façade noise levels would be approximately 70 dBA DNL. However, because the DNL Calculator does not account for site conditions such as acoustical shielding from nearby existing structures and multiple floors, a more detailed traffic noise model was used.

2.3 Detailed Noise Modeling

The proposed project site has several receiver locations of interest including multiple building exposures (i.e., several rows of multi-story buildings with exterior windows and doors facing south (towards Lincoln Avenue) with varying traffic noise exposures as well as a common use outdoor amenities area located interior to the project site. Because of these factors, it was determined that the Federal Highway Administration's (FHWA) Traffic Noise Model (TNM) version 2.5 (FHWA 2004) would be ideal for a more detailed analysis. The TNM traffic noise prediction model calculates the noise levels based on specific information including traffic volumes, vehicle fleet mix, speed limits, roadway geometrics, receiver elevations, intervening structures and lateral distances between the noise receivers and the roadways.

Project site, surrounding structures and roadway geometry were input using aerial photography information upon which the project's site plan was overlain; this was subsequently digitized into the TNM model.

Modeled receiver locations (shown in Figure 2) consisted of the following:

- Proposed building façade exteriors with windows and doors facing Lincoln Avenue, grouped by exposure (receivers R1 – R6);

- Proposed common use outdoor area located between the second and third building rows (R7).

In order to accurately estimate the project site's noise levels in terms of the 24-hour weighted DNL noise metric, the TNM model was run for three 1-hour traffic volume cases: AM/PM peak-hour (assumed to be approximately 10% of the roadways' Average Daily Traffic (ADT); off-peak daytime (assumed to be approximately 6% of ADT), and nighttime volumes (assumed to be approximately 15 % of ADT over the 9-hour period from 10 PM to 7 AM, per HUD noise modeling guidance) The 15% of ADT was then divided by 9, to arrive at the hourly average level suitable for input into TNM. The resultant traffic noise levels for each of these cases was then averaged in the energy (i.e., the logarithmic) domain after applying the 10-decibel noise "penalty" to the nighttime noise levels.

ADT volumes used for the analysis were from the Orange County Transportation Authority Traffic Flow Map (OCTA 2021). The most recent traffic volume count data available (Year 2017) were used as the basis to estimate future traffic volumes (10 years out from the Year 2024, the assumed year of occupancy). This was accomplished using an assumed increase rate of 1% per year. Thus, for example, the Year 2017 forecast average daily traffic volume of 22,000 for the relevant segment of Lincoln Avenue was calculated to be 26,055 by Year 2034. The modeled ADTs are shown in Table 1 below. Modeled traffic speeds were used based upon the posted roadway speed limits using Google Earth Street View.

[1] https://www.hudexchange.info/programs/environmental-review/dnl-calculator/

Table 1 – Modeled Traffic Volumes	
Modeled Roadway	**Average Daily Traffic (ADT) Volume (Year 2034)**
Lincoln Avenue	26,055
Knott Avenue	39,082

Source: OCTA 2021 Traffic Flow Map (OCTA 2021), adjusted to Year 2034.

3 Traffic Noise Analysis Results

The results of the traffic noise analysis for the modeled on-site receivers (shown in Figure 2) are summarized in Table 2. The modeled input and output data are provided in Attachment A. As shown in Table 2, the highest noise levels would occur at Receiver R1, which is representative of the habitable rooms in the first building row facing south, and closest to Lincoln Avenue. At Receiver R1, the traffic noise levels at the building façade are predicted to be 68 dBA DNL at the first, second and third floors. Thus, the exposure from traffic noise along Lincoln Avenue would exceed the HUD exterior noise standard of 65 dBA DNL by 3 dB at the façade of units nearest these roadways, putting these receivers in the "normally unacceptable" noise range. Receivers R2 through R6, representative of the exterior facades of the second and third building rows, all have modeled traffic noise levels less than the HUD exterior noise standard of 65 dBA DNL and would be in the "normally acceptable" noise range. Similarly, at the common outdoor use area (represented by Receiver R7), the traffic noise levels would not exceed 65 dBA DNL and thus would be within the "normally acceptable" noise range.

Table 2 – Traffic Noise Level Results Summary (DNL (dBA))			
Receiver #	**1st-Floor**	**2nd-Floor**	**3rd-Floor**
R1 - 1st row	**68**	**68**	**68**
R2 - 2nd row, west side	60	60	61
R3 - 2nd row, center	60	60	61
R4 - 2nd row, east side	49	60	62
R5 - 3rd row, center	52	53	56
R6 - 3rd row, east side	44	47	52
R7 (Common Outdoor Use Area)	42	n/a	n/a

Source: Attachment A.

Note: **Bolded** numbers indicate that the noise levels exceed the HUD noise standard of 65 dBA DNL.

n/a = not applicable (common outdoor use area is ground level only); 4th-row of proposed project not modeled because as shown, 2nd and 3rd row buildings are already effectively shielded from traffic noise by the first row.

As detailed in Section 2.1, 24 CFR Part 51, Subpart B states that sites at which environmental or community noise exposure exceeds the day night average sound level (DNL) of 65 dBA are considered to be noise-impacted. For new construction proposed in high noise areas, grantees shall incorporate noise attenuation features to the extent required. Approvals in the "normally unacceptable" 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.

Typical new construction of multi-family homes with windows closed provides a minimum of 25 dB exterior to interior noise reduction. All residential units will be equipped with a forced air heating ventilation air conditioning (HVAC) unit that allows for a "windows closed" condition (i.e., windows do not need to be left open for ventilation). As such, the interiors of the proposed habitable rooms in the first building row with doors or windows facing south toward Lincoln Avenue are anticipated to have noise levels of approximately 43 dBA DNL (i.e. 68 dBA exterior – 25 dBA attenuation = 43 dBA interior). Nonetheless, in order to ensure compliance with 24 CFR Part 51, Subpart B and that the HUD noise standard of 45 dBA DNL is not exceeded, the detailed architectural design plans (when these are prepared) shall provide the following specification for upgraded windows:

- All windows and doors in the south-facing residential units of the first building row (i.e., the nearest residential units with doors or windows facing Lincoln Avenue) shall have a Sound Transmission Class (STC) rating of 30 or greater.

Please see Table 3. With implementation of this requirement the proposed project would not exceed the HUD interior noise standard of 45 dBA DNL and would be within the "normally acceptable" noise range for interior noise.

Table 3. Interior Noise Levels (DNL (dBA))

Receivers / Location	Maximum Noise Level at Façade[1]	Required Interior Noise Reduction[2]	Minimum Anticipated Interior Noise Reduction[3]	Upgraded Windows ?[4]	Interior Noise Level[5]	Exceedance of Interior Noise Standard?
R1 (First Row)	68	23	29	Yes	39	No
R2 – R3 (Second Row)	61	16	25	No	36	No
R5 – R6 (Third Row)	56	11	25	No	31	No

1 - Estimated exterior noise level at the building façade based upon Table 2.

2 - Noise reduction required to satisfy the interior noise standards.

3 - Minimum interior noise reduction with windows closed and upgraded windows for south-facing units within first building row, standard windows elsewhere.

4 - Does the required interior noise reduction trigger upgraded windows with an STC greater than 27?

5 - Estimated noise level based upon minimum anticipated noise reduction.

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 4/22/21: https://www.govinfo.gov/content/pkg/CFR-2013-title24-vol1/pdf/CFR-2013-title24-vol1-part51-subpartB.pdf

Federal Highway Administration (FHWA). 2004. FHWA Traffic Noise Model, Version 2.5. Office of Environment and Planning. Washington, DC. February 2004.

SOURCE: Bing Imagery 2021, Open Street Map 2019

DUDEK

0 1,000 2,000 Feet

FIGURE 1

Project Location

Lincoln Avenue Apartments

SOURCE: Bing Imagery 2021, Open Street Map 2019

DUDEK

0 25 50 Feet

FIGURE 2

Noise Model Receiver Location

Lincoln Avenue Apartments

Attachment A

Noise Model Input/Output Data

DNL Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the **Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/)**.

Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

DNL Calculator

Site ID	7101 Lincoln Avenue, Buena Park CA
Record Date	11/18/2022
User's Name	Mike Greene

Road # 1 Name:	**Lincoln Avenue**

Road #1

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑
Effective Distance	70	70	70
Distance to Stop Sign			
Average Speed	40	40	35
Average Daily Trips (ADT)	25273	521	261
Night Fraction of ADT	15	15	15
Road Gradient (%)			0
Vehicle DNL	67	60	65
Calculate Road #1 DNL	69	Reset	

Road # 2 Name:	**Knott Avenue**

Road #2

Vehicle Type	**Cars** ☑	**Medium Trucks** ☑	**Heavy Trucks** ☑

Effective Distance	650	650	650
Distance to Stop Sign			
Average Speed	40	40	35
Average Daily Trips (ADT)	37910	782	391
Night Fraction of ADT	15	15	15
Road Gradient (%)			0
Vehicle DNL	54	47	52

Calculate Road #2 DNL | 57 | Reset

Add Road Source | Add Rail Source

Airport Noise Level	
Loud Impulse Sounds?	○Yes ◉No
Combined DNL for all Road and Rail sources	**70**
Combined DNL including Airport	

Combined DNL including Airport	**N/A**
Site DNL with Loud Impulse Sound	

Calculate Reset

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**: Cancel the project at this location
- **Other Reasonable Alternatives**: Choose an alternate site
- **Mitigation**
  - **Contact your Field or Regional Environmental Officer (/programs/environmental-review/hud-environmental-staff-contacts/)**
  - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
  - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
  - Incorporate natural or man-made barriers. See ***The Noise Guidebook (/resource/313/hud-noise-guidebook/)***
  - Construct noise barrier. See the **Barrier Performance Module (/programs/environmental-review/bpm-calculator/)**

Tools and Guidance

Day/Night Noise Level Assessment Tool User Guide (/resource/3822/day-night-noise-level-assessment-tool-user-guide/)

Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-assessment-tool-flowcharts/)

Dudek					**30 November 2022**							
MG					**TNM 2.5**							
INPUT: ROADWAYS								**Average pavement type shall be used unless**				
PROJECT/CONTRACT:	**13230.29**							**a State highway agency substantiates the use**				
RUN:	**Lincoln Ave Apts HUD EA Peak-Hour**							**of a different type with the approval of FHWA**				
Roadway		**Points**										
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**				**Flow Control**			**Segment**	
				X	**Y**	**Z**		**Control Device**	**Speed Constraint**	**Percent Vehicles Affected**	**Pvmt Type**	**On Struct?**
	ft			ft	ft	ft			mph	%		
Lincoln Ave	75.0	point1	1	1,386.3	1,799.2	0.00					Average	
		point3	3	1,585.6	1,802.3	0.00					Average	
		point4	4	2,824.2	1,817.8	0.00					Average	
		point5	5	3,176.5	1,821.2	0.00						
Knott Ave n. of Lincoln Ave	75.0	point10	10	1,570.8	2,781.3	0.00					Average	
		point7	7	1,584.5	1,806.3	0.00						
Knott Ave s. of Lincoln Ave	75.0	point11	11	1,584.7	1,800.7	0.00					Average	
		point8	8	1,588.2	1,509.1	0.00						

Dudek **30 November 2022**
MG **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **13230.29**
RUN: **Lincoln Ave Apts HUD EA Peak-Hour**

Roadway	**Points**											
Name	**Name**	**No.**	**Segment**									
			Autos		**MTrucks**		**HTrucks**		**Buses**		**Motorcycles**	
			V	**S**	**V**	**S**	**V**	**S**	**V**	**S**	**V**	**S**
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Lincoln Ave	point1	1	2527	40	52	40	26	35	0	0	0	0
	point3	3	2527	40	52	40	26	35	0	0	0	0
	point4	4	2527	40	52	40	26	35	0	0	0	0
	point5	5										
Knott Ave n. of Lincoln Ave	point10	10	3791	40	78	40	39	35	0	0	0	0
	point7	7										
Knott Ave s. of Lincoln Ave	point11	11	3791	40	78	40	39	35	0	0	0	0
	point8	8										

Dudek
MG

30 November 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: 13230.29
RUN: Lincoln Ave Apts HUD EA Peak-Hour

Receiver

Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria				Active in Calc.
			X	Y	Z		Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R1 1st Row 1st Floor	1	1	2,324.0	1,892.0	0.00	5.00	0.00	66	10.0	5.0	Y
R2 2nd Row w side 1st Floor	3	1	2,294.9	1,998.3	0.00	5.00	0.00	66	10.0	5.0	Y
R3 2nd Row center 1st Floor	4	1	2,330.5	1,998.3	0.00	5.00	0.00	66	10.0	5.0	Y
R4 2nd Row e side 1st Floor	5	1	2,354.8	1,998.8	0.00	5.00	0.00	66	10.0	5.0	Y
R5 3rd Row center 1st Floor	6	1	2,353.5	2,053.9	0.00	5.00	0.00	66	10.0	5.0	Y
R6 3rd Row e side 1st Floor	7	1	2,326.3	2,054.3	0.00	5.00	0.00	66	10.0	5.0	Y
R7 Open Space	8	1	2,328.7	2,030.4	0.00	5.00	0.00	66	10.0	5.0	Y
R1-2 1st Row 2nd Floor	10	1	2,324.0	1,892.0	0.00	15.00	0.00	66	10.0	15.0	Y
R2-2 2nd Row w side 2nd Floor	11	1	2,294.9	1,998.3	0.00	15.00	0.00	66	10.0	15.0	Y
R3-2 2nd Row center 2nd Floor	12	1	2,330.5	1,998.3	0.00	15.00	0.00	66	10.0	15.0	Y
R4-2 2nd Row e side 2nd Floor	13	1	2,354.8	1,998.8	0.00	15.00	0.00	66	10.0	15.0	Y
R5-2 3rd Row center 2nd Floor	14	1	2,353.5	2,053.9	0.00	15.00	0.00	66	10.0	15.0	Y
R6-2 3rd Row e side 2nd Floor	15	1	2,326.3	2,054.3	0.00	15.00	0.00	66	10.0	15.0	Y
R1-3 1st Row 3rd Floor	16	1	2,324.0	1,892.0	0.00	25.00	0.00	66	10.0	25.0	Y
R2-3 2nd Row w side 3rd Floor	17	1	2,294.9	1,998.3	0.00	25.00	0.00	66	10.0	25.0	Y
R3-3 2nd Row center 3rd Floor	18	1	2,330.5	1,998.3	0.00	25.00	0.00	66	10.0	25.0	Y
R4-3 2nd Row e side 3rd Floor	19	1	2,354.8	1,998.8	0.00	25.00	0.00	66	10.0	25.0	Y
R5-3 3rd Row center 3rd Floor	21	1	2,353.5	2,053.9	0.00	25.00	0.00	66	10.0	25.0	Y
R6-3 3rd Row e side 3rd Floor	22	1	2,326.3	2,054.3	0.00	25.00	0.00	66	10.0	25.0	Y

Dudek 30 November 2022
MG TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: 13230.29
RUN: Lincoln Ave Apts HUD EA Peak-Hour

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per	$ per	Top	Run:Rise	$ per			X	Y	Z	at	Seg Ht	Perturbs		On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
				Area	Vol.			Length							ment				tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Bldg3	W	0.00	99.99	0.00				0.00	point1	1	2,015.2	2,507.0	0.00	20.00	0.00	0	0		
									point3	3	2,023.9	1,889.2	0.00	20.00	0.00	0	0		
									point4	4	2,142.0	1,890.3	0.00	20.00	0.00	0	0		
									point5	5	2,144.2	2,510.2	0.00	20.00					
Bldg4	W	0.00	99.99	0.00				0.00	point38	38	2,441.6	2,152.7	0.00	15.00	0.00	0	0		
									point7	7	2,443.8	1,928.5	0.00	15.00	0.00	0	0		
									point8	8	2,475.5	1,928.5	0.00	15.00					
Bldg	W	0.00	99.99	0.00				0.00	point40	40	1,651.1	1,991.9	0.00	15.00	0.00	0	0		
									point10	10	1,652.2	1,891.3	0.00	15.00	0.00	0	0		
									point11	11	1,761.5	1,893.5	0.00	15.00	0.00	0	0		
									point12	12	1,761.5	1,999.6	0.00	15.00					
Bldg2	W	0.00	99.99	0.00				0.00	point42	42	1,775.7	1,928.5	0.00	15.00	0.00	0	0		
									point14	14	1,777.9	1,861.8	0.00	15.00	0.00	0	0		
									point15	15	1,831.5	1,865.1	0.00	15.00	0.00	0	0		
									point16	16	1,830.4	1,930.7	0.00	15.00					
Bldg5	W	0.00	99.99	0.00				0.00	point44	44	2,490.6	1,934.0	0.00	15.00	0.00	0	0		
									point18	18	2,490.2	1,912.9	0.00	15.00	0.00	0	0		
									point19	19	2,532.1	1,913.2	0.00	15.00					
Barrier1-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point46	46	2,282.3	2,022.8	0.00	35.00	0.00	0	0		
									point25	25	2,281.2	1,999.2	0.00	35.00	0.00	0	0		
									point26	26	2,365.9	1,998.7	0.00	35.00	0.00	0	0		
									point27	27	2,366.5	2,022.8	0.00	35.00					
2nd Row 3-Story	W	0.00	99.99	0.00				0.00	point48	48	2,282.8	2,077.5	0.00	35.00	0.00	0	0		
									point29	29	2,367.9	2,077.5	0.00	35.00	0.00	0	0		
									point30	30	2,366.8	2,054.1	0.00	35.00	0.00	0	0		
									point31	31	2,314.2	2,055.4	0.00	35.00	0.00	0	0		
									point32	32	2,313.8	2,036.2	0.00	35.00	0.00	0	0		
									point33	33	2,282.8	2,036.9	0.00	35.00					
Barrier1-2-2-2-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point50	50	2,277.8	2,184.1	0.00	0.00	0.00	0	0		
									point35	35	2,277.2	2,159.5	0.00	0.00	0.00	0	0		
									point36	36	2,367.4	2,160.0	0.00	0.00	0.00	0	0		
									point2	2	2,368.0	2,184.6	0.00	0.00					
1st Row 3-Story	W	0.00	99.99	0.00				0.00	point52	52	2,282.1	1,914.8	0.00	35.00	0.00	0	0		
									point21	21	2,282.1	1,893.0	0.00	35.00	0.00	0	0		
									point22	22	2,366.3	1,892.4	0.00	35.00	0.00	0	0		

									point23	23	2,366.8	1,914.8	0.00	35.00						

Dudek
MG

30 November 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 13230.29
RUN: Lincoln Ave Apts HUD EA Peak-Hour
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R1 1st Row 1st Floor	1	1	0.0	67.6	66	67.6	10	Snd Lvl	67.6	0.0	5	-5.0
R2 2nd Row w side 1st Floor	3	1	0.0	59.8	66	59.8	10	----	59.8	0.0	5	-5.0
R3 2nd Row center 1st Floor	4	1	0.0	59.5	66	59.5	10	----	59.5	0.0	5	-5.0
R4 2nd Row e side 1st Floor	5	1	0.0	49.2	66	49.2	10	----	49.2	0.0	5	-5.0
R5 3rd Row center 1st Floor	6	1	0.0	52.0	66	52.0	10	----	52.0	0.0	5	-5.0
R6 3rd Row e side 1st Floor	7	1	0.0	43.5	66	43.5	10	----	43.5	0.0	5	-5.0
R7 Open Space	8	1	0.0	41.4	66	41.4	10	----	41.4	0.0	5	-5.0
R1-2 1st Row 2nd Floor	10	1	0.0	68.1	66	68.1	10	Snd Lvl	68.1	0.0	15	-15.0
R2-2 2nd Row w side 2nd Floor	11	1	0.0	60.1	66	60.1	10	----	60.1	0.0	15	-15.0
R3-2 2nd Row center 2nd Floor	12	1	0.0	59.9	66	59.9	10	----	59.9	0.0	15	-15.0
R4-2 2nd Row e side 2nd Floor	13	1	0.0	61.3	66	61.3	10	----	61.3	0.0	15	-15.0
R5-2 3rd Row center 2nd Floor	14	1	0.0	53.0	66	53.0	10	----	53.0	0.0	15	-15.0
R6-2 3rd Row e side 2nd Floor	15	1	0.0	46.5	66	46.5	10	----	46.5	0.0	15	-15.0
R1-3 1st Row 3rd Floor	16	1	0.0	67.7	66	67.7	10	Snd Lvl	67.7	0.0	25	-25.0
R2-3 2nd Row w side 3rd Floor	17	1	0.0	60.9	66	60.9	10	----	60.9	0.0	25	-25.0
R3-3 2nd Row center 3rd Floor	18	1	0.0	60.9	66	60.9	10	----	60.9	0.0	25	-25.0
R4-3 2nd Row e side 3rd Floor	19	1	0.0	61.6	66	61.6	10	----	61.6	0.0	25	-25.0
R5-3 3rd Row center 3rd Floor	21	1	0.0	56.2	66	56.2	10	----	56.2	0.0	25	-25.0
R6-3 3rd Row e side 3rd Floor	22	1	0.0	53.2	66	53.2	10	----	53.2	0.0	25	-25.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	19	0.0	0.0	0.0

All Impacted		3	0.0	0.0	0.0						
All that meet NR Goal		0	0.0	0.0	0.0						

Dudek					**30 November 2022**							
MG					**TNM 2.5**							
INPUT: ROADWAYS								**Average pavement type shall be used unless**				
PROJECT/CONTRACT:	**13230.29**							**a State highway agency substantiates the use**				
RUN:	**Lincoln Ave Apts HUD EA Off Pk Hrs**							**of a different type with the approval of FHWA**				
Roadway		**Points**										
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**				**Flow Control**			**Segment**	
				X	**Y**	**Z**		**Control Device**	**Speed Constraint**	**Percent Vehicles Affected**	**Pvmt Type**	**On Struct?**
	ft			ft	ft	ft			mph	%		
Lincoln Ave	75.0	point1	1	1,386.3	1,799.2	0.00					Average	
		point3	3	1,585.6	1,802.3	0.00					Average	
		point4	4	2,824.2	1,817.8	0.00					Average	
		point5	5	3,176.5	1,821.2	0.00						
Knott Ave n. of Lincoln Ave	75.0	point10	10	1,570.8	2,781.3	0.00					Average	
		point7	7	1,584.5	1,806.3	0.00						
Knott Ave s. of Lincoln Ave	75.0	point11	11	1,584.7	1,800.7	0.00					Average	
		point8	8	1,588.2	1,509.1	0.00						

Dudek **30 November 2022**
MG **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **13230.29**
RUN: **Lincoln Ave Apts HUD EA Off Pk Hrs**

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Lincoln Ave	point1	1	1516	40	31	40	16	35	0	0	0	0
	point3	3	1516	40	31	40	16	35	0	0	0	0
	point4	4	1516	40	31	40	16	35	0	0	0	0
	point5	5										
Knott Ave n. of Lincoln Ave	point10	10	2275	40	47	40	23	35	0	0	0	0
	point7	7										
Knott Ave s. of Lincoln Ave	point11	11	2275	40	47	40	23	35	0	0	0	0
	point8	8										

Dudek
MG

30 November 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: 13230.29
RUN: Lincoln Ave Apts HUD EA Off Pk Hrs

Receiver

Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z	above	Existing	Impact Criteria		NR	in
						Ground	LAeq1h	LAeq1h	Sub'l	Goal	Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R1 1st Row 1st Floor	1	1	2,324.0	1,892.0	0.00	5.00	0.00	66	10.0	5.0	Y
R2 2nd Row w side 1st Floor	3	1	2,294.9	1,998.3	0.00	5.00	0.00	66	10.0	5.0	Y
R3 2nd Row center 1st Floor	4	1	2,330.5	1,998.3	0.00	5.00	0.00	66	10.0	5.0	Y
R4 2nd Row e side 1st Floor	5	1	2,354.8	1,998.8	0.00	5.00	0.00	66	10.0	5.0	Y
R5 3rd Row center 1st Floor	6	1	2,353.5	2,053.9	0.00	5.00	0.00	66	10.0	5.0	Y
R6 3rd Row e side 1st Floor	7	1	2,326.3	2,054.3	0.00	5.00	0.00	66	10.0	5.0	Y
R7 Open Space	8	1	2,328.7	2,030.4	0.00	5.00	0.00	66	10.0	5.0	Y
R1-2 1st Row 2nd Floor	10	1	2,324.0	1,892.0	0.00	15.00	0.00	66	10.0	15.0	Y
R2-2 2nd Row w side 2nd Floor	11	1	2,294.9	1,998.3	0.00	15.00	0.00	66	10.0	15.0	Y
R3-2 2nd Row center 2nd Floor	12	1	2,330.5	1,998.3	0.00	15.00	0.00	66	10.0	15.0	Y
R4-2 2nd Row e side 2nd Floor	13	1	2,354.8	1,998.8	0.00	15.00	0.00	66	10.0	15.0	Y
R5-2 3rd Row center 2nd Floor	14	1	2,353.5	2,053.9	0.00	15.00	0.00	66	10.0	15.0	Y
R6-2 3rd Row e side 2nd Floor	15	1	2,326.3	2,054.3	0.00	15.00	0.00	66	10.0	15.0	Y
R1-3 1st Row 3rd Floor	16	1	2,324.0	1,892.0	0.00	25.00	0.00	66	10.0	25.0	Y
R2-3 2nd Row w side 3rd Floor	17	1	2,294.9	1,998.3	0.00	25.00	0.00	66	10.0	25.0	Y
R3-3 2nd Row center 3rd Floor	18	1	2,330.5	1,998.3	0.00	25.00	0.00	66	10.0	25.0	Y
R4-3 2nd Row e side 3rd Floor	19	1	2,354.8	1,998.8	0.00	25.00	0.00	66	10.0	25.0	Y
R5-3 3rd Row center 3rd Floor	21	1	2,353.5	2,053.9	0.00	25.00	0.00	66	10.0	25.0	Y
R6-3 3rd Row e side 3rd Floor	22	1	2,326.3	2,054.3	0.00	25.00	0.00	66	10.0	25.0	Y

Dudek 30 November 2022
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INPUT: BARRIERS
PROJECT/CONTRACT: 13230.29
RUN: Lincoln Ave Apts HUD EA Off Pk Hrs

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per	$ per	Top	Run:Rise	$ per			X	Y	Z	at	Seg Ht	Perturbs		On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
				Area	Vol.			Length							ment				tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Bldg3	W	0.00	99.99	0.00				0.00	point1	1	2,015.2	2,507.0	0.00	20.00	0.00	0	0		
									point3	3	2,023.9	1,889.2	0.00	20.00	0.00	0	0		
									point4	4	2,142.0	1,890.3	0.00	20.00	0.00	0	0		
									point5	5	2,144.2	2,510.2	0.00	20.00					
Bldg4	W	0.00	99.99	0.00				0.00	point38	38	2,441.6	2,152.7	0.00	15.00	0.00	0	0		
									point7	7	2,443.8	1,928.5	0.00	15.00	0.00	0	0		
									point8	8	2,475.5	1,928.5	0.00	15.00					
Bldg	W	0.00	99.99	0.00				0.00	point40	40	1,651.1	1,991.9	0.00	15.00	0.00	0	0		
									point10	10	1,652.2	1,891.3	0.00	15.00	0.00	0	0		
									point11	11	1,761.5	1,893.5	0.00	15.00	0.00	0	0		
									point12	12	1,761.5	1,999.6	0.00	15.00					
Bldg2	W	0.00	99.99	0.00				0.00	point42	42	1,775.7	1,928.5	0.00	15.00	0.00	0	0		
									point14	14	1,777.9	1,861.8	0.00	15.00	0.00	0	0		
									point15	15	1,831.5	1,865.1	0.00	15.00	0.00	0	0		
									point16	16	1,830.4	1,930.7	0.00	15.00					
Bldg5	W	0.00	99.99	0.00				0.00	point44	44	2,490.6	1,934.0	0.00	15.00	0.00	0	0		
									point18	18	2,490.2	1,912.9	0.00	15.00	0.00	0	0		
									point19	19	2,532.1	1,913.2	0.00	15.00					
Barrier1-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point46	46	2,282.3	2,022.8	0.00	35.00	0.00	0	0		
									point25	25	2,281.2	1,999.2	0.00	35.00	0.00	0	0		
									point26	26	2,365.9	1,998.7	0.00	35.00	0.00	0	0		
									point27	27	2,366.5	2,022.8	0.00	35.00					
2nd Row 3-Story	W	0.00	99.99	0.00				0.00	point48	48	2,282.8	2,077.5	0.00	35.00	0.00	0	0		
									point29	29	2,367.9	2,077.5	0.00	35.00	0.00	0	0		
									point30	30	2,366.8	2,054.1	0.00	35.00	0.00	0	0		
									point31	31	2,314.2	2,055.4	0.00	35.00	0.00	0	0		
									point32	32	2,313.8	2,036.2	0.00	35.00	0.00	0	0		
									point33	33	2,282.8	2,036.9	0.00	35.00					
Barrier1-2-2-2-2-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point50	50	2,277.8	2,184.1	0.00	0.00	0.00	0	0		
									point35	35	2,277.2	2,159.5	0.00	0.00	0.00	0	0		
									point36	36	2,367.4	2,160.0	0.00	0.00	0.00	0	0		
									point2	2	2,368.0	2,184.6	0.00	0.00					
1st Row 3-Story	W	0.00	99.99	0.00				0.00	point52	52	2,282.1	1,914.8	0.00	35.00	0.00	0	0		
									point21	21	2,282.1	1,893.0	0.00	35.00	0.00	0	0		
									point22	22	2,366.3	1,892.4	0.00	35.00	0.00	0	0		

									point23	23	2,366.8	1,914.8	0.00	35.00							

Dudek
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TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 13230.29
RUN: Lincoln Ave Apts HUD EA Off Pk Hrs
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R1 1st Row 1st Floor	1	1	0.0	65.4	66	65.4	10	----	65.4	0.0	5	-5.0
R2 2nd Row w side 1st Floor	3	1	0.0	57.6	66	57.6	10	----	57.6	0.0	5	-5.0
R3 2nd Row center 1st Floor	4	1	0.0	57.3	66	57.3	10	----	57.3	0.0	5	-5.0
R4 2nd Row e side 1st Floor	5	1	0.0	47.0	66	47.0	10	----	47.0	0.0	5	-5.0
R5 3rd Row center 1st Floor	6	1	0.0	49.8	66	49.8	10	----	49.8	0.0	5	-5.0
R6 3rd Row e side 1st Floor	7	1	0.0	41.3	66	41.3	10	----	41.3	0.0	5	-5.0
R7 Open Space	8	1	0.0	39.2	66	39.2	10	----	39.2	0.0	5	-5.0
R1-2 1st Row 2nd Floor	10	1	0.0	65.8	66	65.8	10	----	65.8	0.0	15	-15.0
R2-2 2nd Row w side 2nd Floor	11	1	0.0	57.9	66	57.9	10	----	57.9	0.0	15	-15.0
R3-2 2nd Row center 2nd Floor	12	1	0.0	57.7	66	57.7	10	----	57.7	0.0	15	-15.0
R4-2 2nd Row e side 2nd Floor	13	1	0.0	59.1	66	59.1	10	----	59.1	0.0	15	-15.0
R5-2 3rd Row center 2nd Floor	14	1	0.0	50.8	66	50.8	10	----	50.8	0.0	15	-15.0
R6-2 3rd Row e side 2nd Floor	15	1	0.0	44.3	66	44.3	10	----	44.3	0.0	15	-15.0
R1-3 1st Row 3rd Floor	16	1	0.0	65.5	66	65.5	10	----	65.5	0.0	25	-25.0
R2-3 2nd Row w side 3rd Floor	17	1	0.0	58.7	66	58.7	10	----	58.7	0.0	25	-25.0
R3-3 2nd Row center 3rd Floor	18	1	0.0	58.7	66	58.7	10	----	58.7	0.0	25	-25.0
R4-3 2nd Row e side 3rd Floor	19	1	0.0	59.4	66	59.4	10	----	59.4	0.0	25	-25.0
R5-3 3rd Row center 3rd Floor	21	1	0.0	53.9	66	53.9	10	----	53.9	0.0	25	-25.0
R6-3 3rd Row e side 3rd Floor	22	1	0.0	51.0	66	51.0	10	----	51.0	0.0	25	-25.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	19	0.0	0.0	0.0

All Impacted		0	0.0	0.0	0.0						
All that meet NR Goal		0	0.0	0.0	0.0						

Dudek					**30 November 2022**							
MG					**TNM 2.5**							
INPUT: ROADWAYS							**Average pavement type shall be used unless**					
PROJECT/CONTRACT:	**13230.29**						**a State highway agency substantiates the use**					
RUN:	**Lincoln Ave Apts HUD EA Nighttime**						**of a different type with the approval of FHWA**					
Roadway		**Points**										
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**			**Flow Control**			**Segment**		
				X	**Y**	**Z**	**Control Device**	**Speed Constraint**	**Percent Vehicles Affected**	**Pvmt Type**	**On Struct?**	
	ft			ft	ft	ft		mph	%			
Lincoln Ave	75.0	point1	1	1,386.3	1,799.2	0.00				Average		
		point3	3	1,585.6	1,802.3	0.00				Average		
		point4	4	2,824.2	1,817.8	0.00				Average		
		point5	5	3,176.5	1,821.2	0.00						
Knott Ave n. of Lincoln Ave	75.0	point10	10	1,570.8	2,781.3	0.00				Average		
		point7	7	1,584.5	1,806.3	0.00						
Knott Ave s. of Lincoln Ave	75.0	point11	11	1,584.7	1,800.7	0.00				Average		
		point8	8	1,588.2	1,509.1	0.00						

Dudek **30 November 2022**
MG **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: **13230.29**
RUN: **Lincoln Ave Apts HUD EA Nighttime**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Lincoln Ave	point1	1	421	40	9	40	4	35	0	0	0	0
	point3	3	421	40	9	40	4	35	0	0	0	0
	point4	4	421	40	9	40	4	35	0	0	0	0
	point5	5										
Knott Ave n. of Lincoln Ave	point10	10	632	40	13	40	7	35	0	0	0	0
	point7	7										
Knott Ave s. of Lincoln Ave	point11	11	632	40	13	40	7	35	0	0	0	0
	point8	8										

Dudek
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30 November 2022
TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: 13230.29
RUN: Lincoln Ave Apts HUD EA Nighttime

Receiver

Name	No.	#DUs	Coordinates (ground)			Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			X	Y	Z						
			ft	ft	ft	ft	dBA	dBA	dB	dB	
R1 1st Row 1st Floor	1	1	2,324.0	1,892.0	0.00	5.00	0.00	66	10.0	5.0	Y
R2 2nd Row w side 1st Floor	3	1	2,294.9	1,998.3	0.00	5.00	0.00	66	10.0	5.0	Y
R3 2nd Row center 1st Floor	4	1	2,330.5	1,998.3	0.00	5.00	0.00	66	10.0	5.0	Y
R4 2nd Row e side 1st Floor	5	1	2,354.8	1,998.8	0.00	5.00	0.00	66	10.0	5.0	Y
R5 3rd Row center 1st Floor	6	1	2,353.5	2,053.9	0.00	5.00	0.00	66	10.0	5.0	Y
R6 3rd Row e side 1st Floor	7	1	2,326.3	2,054.3	0.00	5.00	0.00	66	10.0	5.0	Y
R7 Open Space	8	1	2,328.7	2,030.4	0.00	5.00	0.00	66	10.0	5.0	Y
R1-2 1st Row 2nd Floor	10	1	2,324.0	1,892.0	0.00	15.00	0.00	66	10.0	15.0	Y
R2-2 2nd Row w side 2nd Floor	11	1	2,294.9	1,998.3	0.00	15.00	0.00	66	10.0	15.0	Y
R3-2 2nd Row center 2nd Floor	12	1	2,330.5	1,998.3	0.00	15.00	0.00	66	10.0	15.0	Y
R4-2 2nd Row e side 2nd Floor	13	1	2,354.8	1,998.8	0.00	15.00	0.00	66	10.0	15.0	Y
R5-2 3rd Row center 2nd Floor	14	1	2,353.5	2,053.9	0.00	15.00	0.00	66	10.0	15.0	Y
R6-2 3rd Row e side 2nd Floor	15	1	2,326.3	2,054.3	0.00	15.00	0.00	66	10.0	15.0	Y
R1-3 1st Row 3rd Floor	16	1	2,324.0	1,892.0	0.00	25.00	0.00	66	10.0	25.0	Y
R2-3 2nd Row w side 3rd Floor	17	1	2,294.9	1,998.3	0.00	25.00	0.00	66	10.0	25.0	Y
R3-3 2nd Row center 3rd Floor	18	1	2,330.5	1,998.3	0.00	25.00	0.00	66	10.0	25.0	Y
R4-3 2nd Row e side 3rd Floor	19	1	2,354.8	1,998.8	0.00	25.00	0.00	66	10.0	25.0	Y
R5-3 3rd Row center 3rd Floor	21	1	2,353.5	2,053.9	0.00	25.00	0.00	66	10.0	25.0	Y
R6-3 3rd Row e side 3rd Floor	22	1	2,326.3	2,054.3	0.00	25.00	0.00	66	10.0	25.0	Y

Dudek 30 November 2022
MG TNM 2.5

INPUT: BARRIERS
PROJECT/CONTRACT: 13230.29
RUN: Lincoln Ave Apts HUD EA Nighttime

Barrier									Points										
Name	Type	Height		If Wall	If Berm			Add'tnl	Name	No.	Coordinates (bottom)			Height	Segment				
		Min	Max	$ per	$ per	Top	Run:Rise	$ per			X	Y	Z	at	Seg Ht	Perturbs		On	Important
				Unit	Unit	Width		Unit						Point	Incre-	#Up	#Dn	Struct?	Reflec-
				Area	Vol.			Length							ment				tions?
		ft	ft	$/sq ft	$/cu yd	ft	ft:ft	$/ft			ft	ft	ft	ft	ft				
Bldg3	W	0.00	99.99	0.00				0.00	point1	1	2,015.2	2,507.0	0.00	20.00	0.00	0	0		
									point3	3	2,023.9	1,889.2	0.00	20.00	0.00	0	0		
									point4	4	2,142.0	1,890.3	0.00	20.00	0.00	0	0		
									point5	5	2,144.2	2,510.2	0.00	20.00					
Bldg4	W	0.00	99.99	0.00				0.00	point38	38	2,441.6	2,152.7	0.00	15.00	0.00	0	0		
									point7	7	2,443.8	1,928.5	0.00	15.00	0.00	0	0		
									point8	8	2,475.5	1,928.5	0.00	15.00					
Bldg	W	0.00	99.99	0.00				0.00	point40	40	1,651.1	1,991.9	0.00	15.00	0.00	0	0		
									point10	10	1,652.2	1,891.3	0.00	15.00	0.00	0	0		
									point11	11	1,761.5	1,893.5	0.00	15.00	0.00	0	0		
									point12	12	1,761.5	1,999.6	0.00	15.00					
Bldg2	W	0.00	99.99	0.00				0.00	point42	42	1,775.7	1,928.5	0.00	15.00	0.00	0	0		
									point14	14	1,777.9	1,861.8	0.00	15.00	0.00	0	0		
									point15	15	1,831.5	1,865.1	0.00	15.00	0.00	0	0		
									point16	16	1,830.4	1,930.7	0.00	15.00					
Bldg5	W	0.00	99.99	0.00				0.00	point44	44	2,490.6	1,934.0	0.00	15.00	0.00	0	0		
									point18	18	2,490.2	1,912.9	0.00	15.00	0.00	0	0		
									point19	19	2,532.1	1,913.2	0.00	15.00					
Barrier1-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point46	46	2,282.3	2,022.8	0.00	35.00	0.00	0	0		
									point25	25	2,281.2	1,999.2	0.00	35.00	0.00	0	0		
									point26	26	2,365.9	1,998.7	0.00	35.00	0.00	0	0		
									point27	27	2,366.5	2,022.8	0.00	35.00					
2nd Row 3-Story	W	0.00	99.99	0.00				0.00	point48	48	2,282.8	2,077.5	0.00	35.00	0.00	0	0		
									point29	29	2,367.9	2,077.5	0.00	35.00	0.00	0	0		
									point30	30	2,366.8	2,054.1	0.00	35.00	0.00	0	0		
									point31	31	2,314.2	2,055.4	0.00	35.00	0.00	0	0		
									point32	32	2,313.8	2,036.2	0.00	35.00	0.00	0	0		
									point33	33	2,282.8	2,036.9	0.00	35.00					
Barrier1-2-2-2-2-2-2-2-2-2-2-2-2-2-2	W	0.00	99.99	0.00				0.00	point50	50	2,277.8	2,184.1	0.00	0.00	0.00	0	0		
									point35	35	2,277.2	2,159.5	0.00	0.00	0.00	0	0		
									point36	36	2,367.4	2,160.0	0.00	0.00	0.00	0	0		
									point2	2	2,368.0	2,184.6	0.00	0.00					
1st Row 3-Story	W	0.00	99.99	0.00				0.00	point52	52	2,282.1	1,914.8	0.00	35.00	0.00	0	0		
									point21	21	2,282.1	1,893.0	0.00	35.00	0.00	0	0		
									point22	22	2,366.3	1,892.4	0.00	35.00	0.00	0	0		

									point23	23	2,366.8	1,914.8	0.00	35.00						

Dudek
MG

30 November 2022
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: 13230.29
RUN: Lincoln Ave Apts HUD EA Nighttime
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

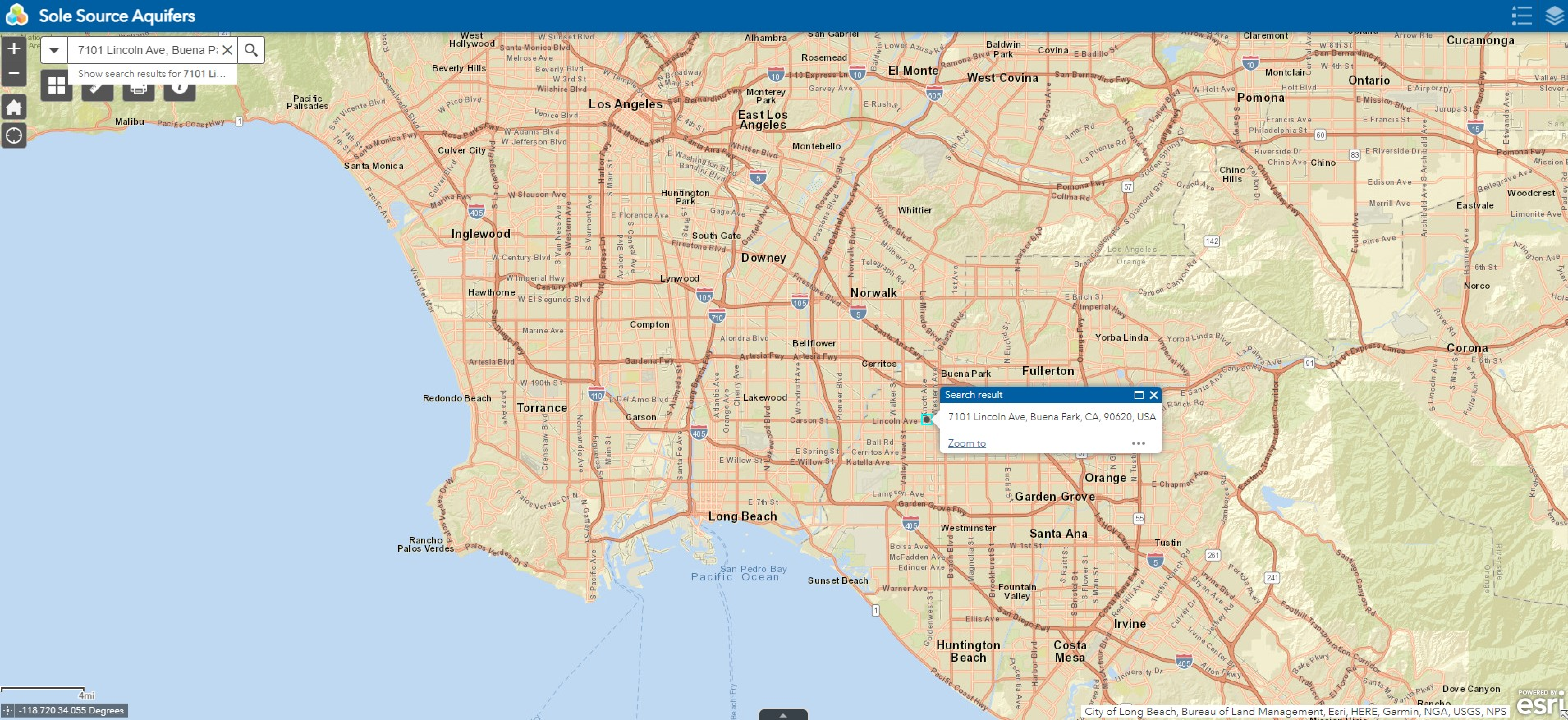
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
R1 1st Row 1st Floor	1	1	0.0	59.8	66	59.8	10	----	59.8	0.0	5	-5.0
R2 2nd Row w side 1st Floor	3	1	0.0	52.0	66	52.0	10	----	52.0	0.0	5	-5.0
R3 2nd Row center 1st Floor	4	1	0.0	51.7	66	51.7	10	----	51.7	0.0	5	-5.0
R4 2nd Row e side 1st Floor	5	1	0.0	41.4	66	41.4	10	----	41.4	0.0	5	-5.0
R5 3rd Row center 1st Floor	6	1	0.0	44.2	66	44.2	10	----	44.2	0.0	5	-5.0
R6 3rd Row e side 1st Floor	7	1	0.0	35.7	66	35.7	10	----	35.7	0.0	5	-5.0
R7 Open Space	8	1	0.0	33.7	66	33.7	10	----	33.7	0.0	5	-5.0
R1-2 1st Row 2nd Floor	10	1	0.0	60.3	66	60.3	10	----	60.3	0.0	15	-15.0
R2-2 2nd Row w side 2nd Floor	11	1	0.0	52.3	66	52.3	10	----	52.3	0.0	15	-15.0
R3-2 2nd Row center 2nd Floor	12	1	0.0	52.1	66	52.1	10	----	52.1	0.0	15	-15.0
R4-2 2nd Row e side 2nd Floor	13	1	0.0	53.6	66	53.6	10	----	53.6	0.0	15	-15.0
R5-2 3rd Row center 2nd Floor	14	1	0.0	45.2	66	45.2	10	----	45.2	0.0	15	-15.0
R6-2 3rd Row e side 2nd Floor	15	1	0.0	38.7	66	38.7	10	----	38.7	0.0	15	-15.0
R1-3 1st Row 3rd Floor	16	1	0.0	59.9	66	59.9	10	----	59.9	0.0	25	-25.0
R2-3 2nd Row w side 3rd Floor	17	1	0.0	53.1	66	53.1	10	----	53.1	0.0	25	-25.0
R3-3 2nd Row center 3rd Floor	18	1	0.0	53.1	66	53.1	10	----	53.1	0.0	25	-25.0
R4-3 2nd Row e side 3rd Floor	19	1	0.0	53.8	66	53.8	10	----	53.8	0.0	25	-25.0
R5-3 3rd Row center 3rd Floor	21	1	0.0	48.4	66	48.4	10	----	48.4	0.0	25	-25.0
R6-3 3rd Row e side 3rd Floor	22	1	0.0	45.4	66	45.4	10	----	45.4	0.0	25	-25.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	19	0.0	0.0	0.0

All Impacted		0	0.0	0.0	0.0						
All that meet NR Goal		0	0.0	0.0	0.0						

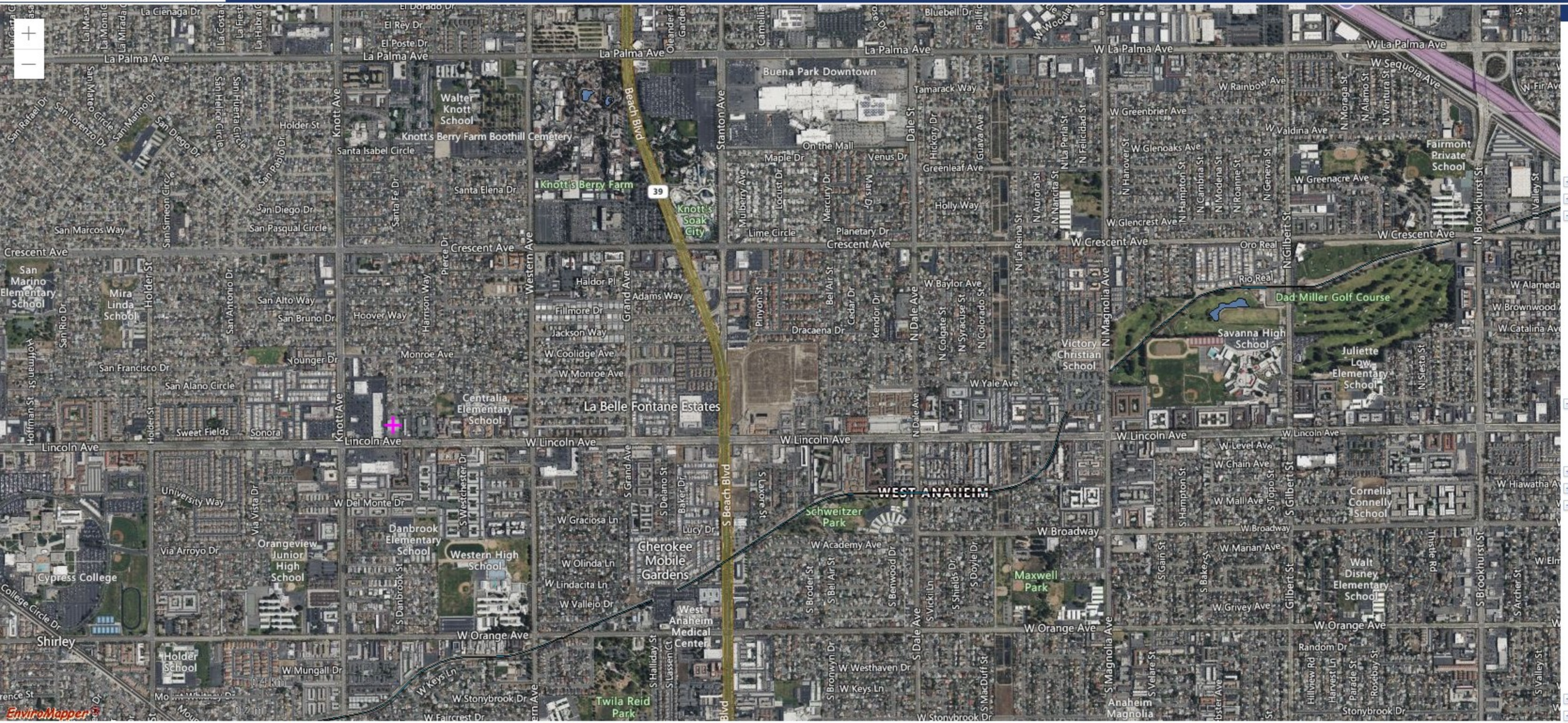
Attachment 13. Sole Source Aquifers Map


Sole Source Aquifers
7101 Lincoln Ave, Buena P
Show search results for 7101 Li...
Search result
7101 Lincoln Ave, Buena Park, CA, 90620, USA
Zoom to
4mi
-118.720 34.055 Degrees
City of Long Beach, Bureau of Land Management, Esri, HERE, Garmin, NGA, USGS, NPS
Los Angeles
East Los Angeles
Long Beach
Buena Park
Fullerton
Santa Ana
Anaheim
Garden Grove
Huntington Beach
Irvine
Torrance
Inglewood
Pacific Ocean

Attachment 14. National Wetlands Inventory Map

7101 Lincoln Ave, Buena F

Basemap | Imagery | Draw | Erase | Save Session | Tools | More Data

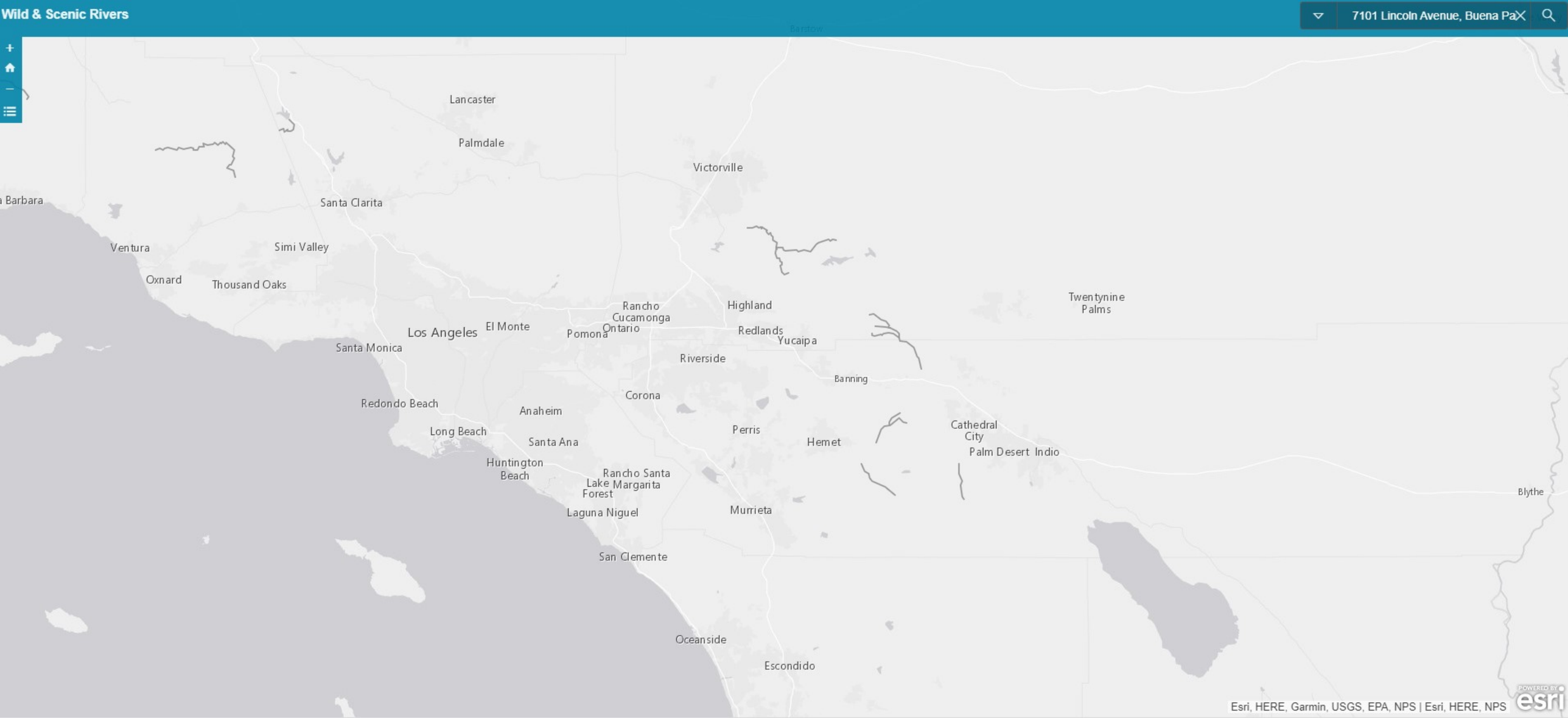


Select Map Contents

- ZIP Codes
- Congressional Districts
- City Boundary
- Urbanized Areas
- Federal Lands
- Townships Boundary
- Counties
- States
- EPA Regions
- **Non-attainment Areas**
- **EJScreen Indexes (2021)**
- **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**
  - Airport Points
  - Airport Polygons
  - Railroads
- **Places**
- **Critical Habitat**
- **NWI Wetlands**
  - Wetlands
    - Riverine
    - Other
    - Lake
    - Freshwater Pond
    - Freshwater Forested/Shrub Wetland
    - Freshwater Emergent Wetland
    - Estuarine and Marine Wetland
    - Estuarine and Marine Deepwater
- **FEMA Flood**
- **Land Cover**

EnviroMapper

Attachment 15. Wild and Scenic Rivers Map


Wild & Scenic Rivers
7101 Lincoln Avenue, Buena Pa
Barstow
Lancaster
Palmdale
Victorville
Santa Clarita
Ventura
Simi Valley
Oxnard
Thousand Oaks
Rancho Cucamonga
Highland
Twentynine Palms
Los Angeles
El Monte
Pomona
Ontario
Redlands
Yucaipa
Santa Monica
Riverside
Banning
Corona
Redondo Beach
Anaheim
Perris
Cathedral City
Long Beach
Santa Ana
Hemet
Palm Desert
Indio
Huntington Beach
Rancho Santa Margarita
Lake Forest
Blythe
Laguna Niguel
Murrieta
San Clemente
Oceanside
Escondido
Esri, HERE, Garmin, USGS, EPA, NPS | Esri, HERE, NPS
esri

Attachment 16. Environmental Justice Screening Report

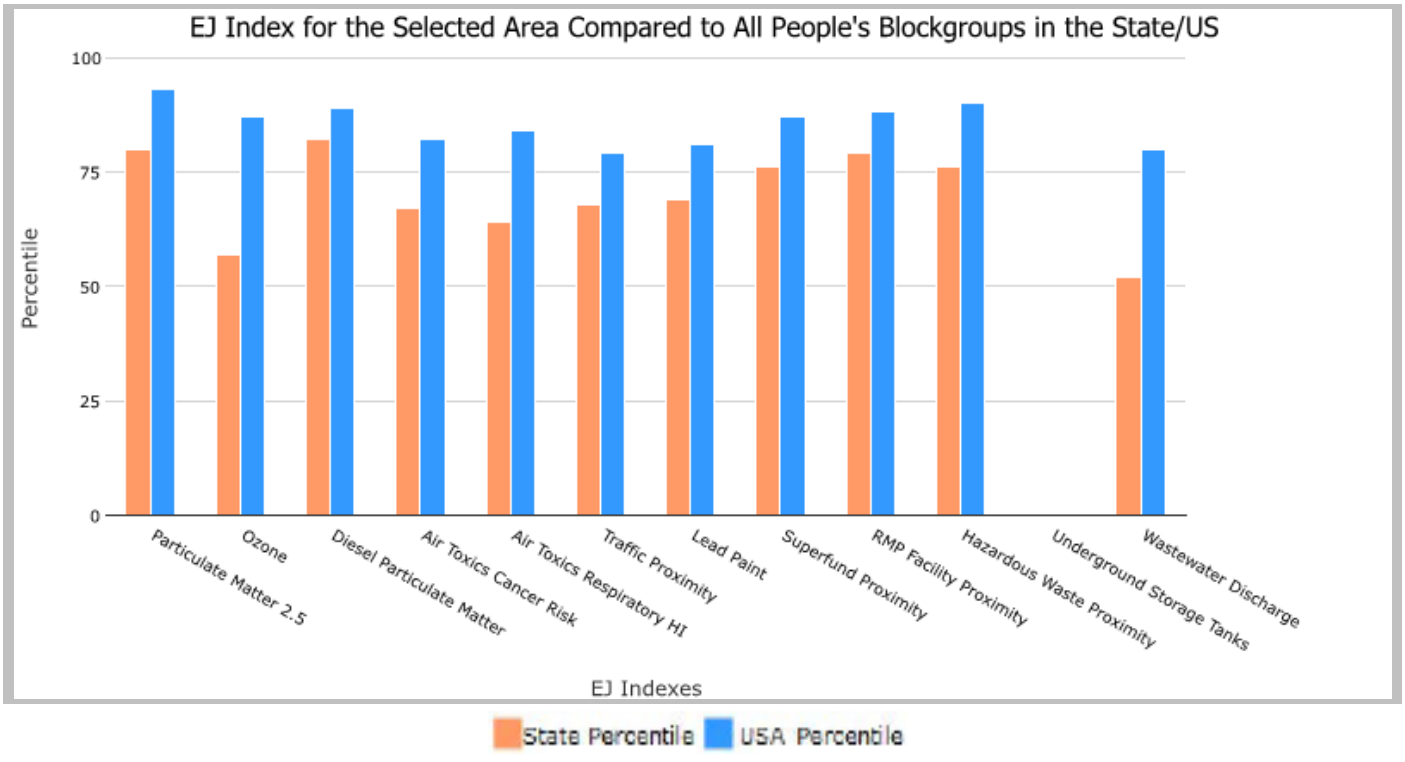
EJScreen Report (Version 2.1)

0.125 miles Ring Centered at 33.832628,-118.008597, CALIFORNIA, EPA Region 9

Approximate Population: 252

Input Area (sq. miles): 0.05

Selected Variables	State Percentile	USA Percentile
Environmental Justice Indexes		
EJ Index for Particulate Matter 2.5	80	93
EJ Index for Ozone	57	87
EJ Index for Diesel Particulate Matter*	82	89
EJ Index for Air Toxics Cancer Risk*	67	82
EJ Index for Air Toxics Respiratory HI*	64	84
EJ Index for Traffic Proximity	68	79
EJ Index for Lead Paint	69	81
EJ Index for Superfund Proximity	76	87
EJ Index for RMP Facility Proximity	79	88
EJ Index for Hazardous Waste Proximity	76	90
EJ Index for Underground Storage Tanks	0	0
EJ Index for Wastewater Discharge	52	80



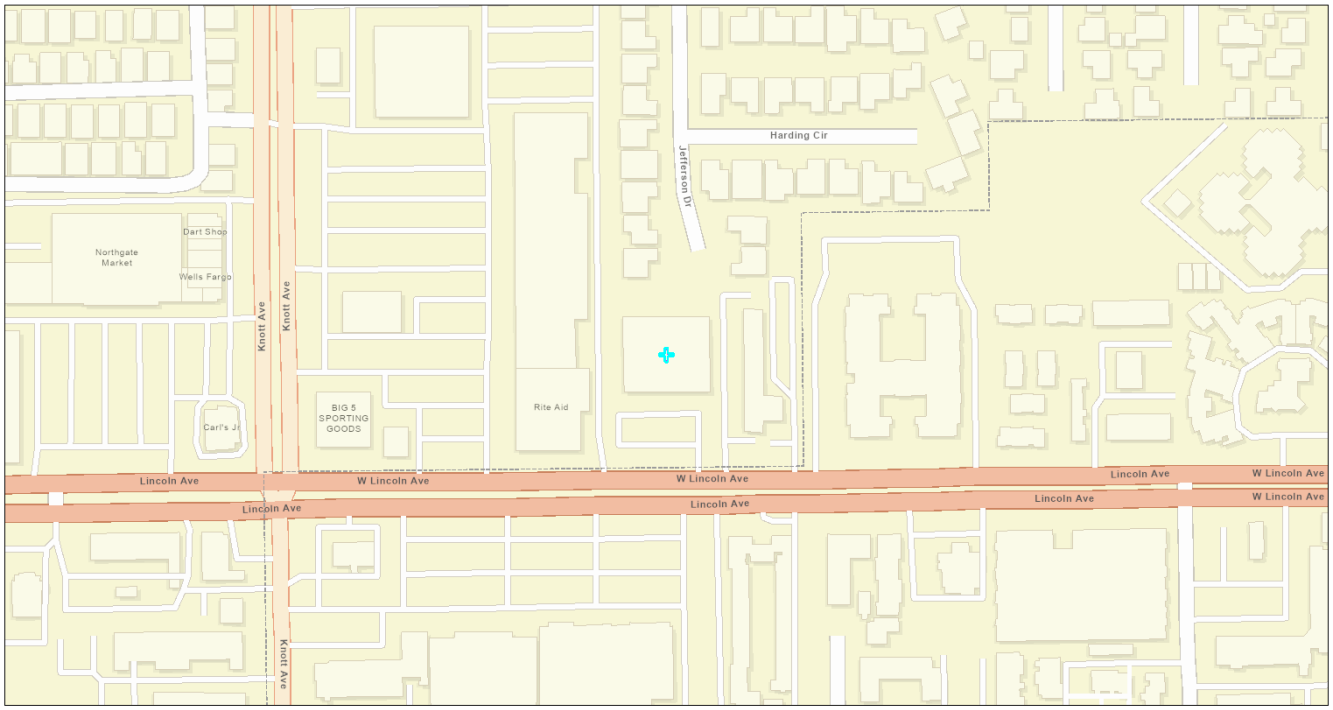
This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

EJScreen Report (Version 2.1)

0.125 miles Ring Centered at 33.832628,-118.008597, CALIFORNIA, EPA Region 9

Approximate Population: 252

Input Area (sq. miles): 0.05



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJScreen Report (Version 2.1)

0.125 miles Ring Centered at 33.832628,-118.008597, CALIFORNIA, EPA Region 9

Approximate Population: 252

Input Area (sq. miles): 0.05

Selected Variables	Value	State Avg.	%ile in State	USA Avg.	%ile in USA
Pollution and Sources					
Particulate Matter 2.5 (µg/m^3)	13.2	11.7	76	8.67	97
Ozone (ppb)	44.1	47.7	40	42.5	68
Diesel Particulate Matter* (µg/m^3)	0.51	0.33	82	0.294	80-90th
Air Toxics Cancer Risk* (lifetime risk per million)	30	31	76	28	80-90th
Air Toxics Respiratory HI*	0.4	0.43	65	0.36	80-90th
Traffic Proximity (daily traffic count/distance to road)	450	1400	55	760	64
Lead Paint (% Pre-1960 Housing)	0.32	0.28	57	0.27	59
Superfund Proximity (site count/km distance)	0.14	0.17	69	0.13	76
RMP Facility Proximity (facility count/km distance)	1.5	1.1	76	0.77	84
Hazardous Waste Proximity (facility count/km distance)	6.2	5.2	67	2.2	90
Underground Storage Tanks (count/km^2)	0	1.5	0	3.9	0
Wastewater Discharge (toxicity-weighted concentration/m distance)	0.0016	67	35	12	53
Socioeconomic Indicators					
Demographic Index	56%	44%	68	35%	79
People of Color	76%	63%	64	40%	81
Low Income	35%	29%	66	30%	62
Unemployment Rate	2%	6%	22	5%	29
Limited English Speaking Households	18%	9%	83	5%	91
Less Than High School Education	26%	16%	76	12%	87
Under Age 5	3%	6%	29	6%	32
Over Age 64	22%	14%	78	16%	73

*Diesel particular 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.

For additional information, see: www.epa.gov/environmentaljustice

Attachment 17. City of Buena Park Resolution No. 14757
(General Plan Amendment No. GP-22-2)

RESOLUTION NO.14757

GENERAL PLAN AMENDMENT NO. GP-22-2

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BUENA PARK, CALIFORNIA, APPROVING GENERAL PLAN AMENDMENT GP-22-2, MAKING AMENDMENT TO THE GENERAL PLAN LAND USE MAP OF THE LAND USE AND COMMUNITY DESIGN ELEMENT OF THE GENERAL PLAN, CHANGING THE LAND USE FROM "COMMERCIAL" TO "GENERAL MIXED-USE" FOR CERTAIN PROPERTY LOCATED AT 7101 LINCOLN AVENUE (APN: 135-192-50)

A. Recitals.

(i) The City Council of the City of Buena Park adopted the Buena Park General Plan as required by law on December 7, 2010, through the adoption of Resolution No. 12497.

(ii) C&C Development Co. LLC, applicant, 14211 Yorba Street, Suite 200, Tustin, CA 92780, on behalf of City of Buena Park, property owner, 6650 Beach Boulevard, Buena Park, CA 90620 has filed an application for General Plan Amendment GP-22-2 to change the land use designation from Commercial to General Mixed-Use on certain property located at 7101 Lincoln Avenue, in the City of Buena Park, California.

(iii) On September 13, 2023 following a duly noticed public hearing, as required by law, the Planning Commission of the City of Buena Park adopted a Resolution recommending that the City Council adopt General Plan Amendment GP22-2, amending the General Plan Land Use Map of the Land Use and Community Design Element of the General Plan.

(iv) The City Council has reviewed and considered all components of the proposed General Plan Amendment GP-22-2 from 'Commercial' to 'General Mixed Use' land use designation and Mitigated Negative Declaration MND-22-2 and concluded its public hearing prior to adoption of this Resolution

(v) On October 10, 2023 the City Council of the City of Buena Park conducted a duly noticed public hearing as required by law to consider the proposed General Plan Amendment GP-22-2. Said public hearing was concluded prior to the adoption of this Resolution.

(vi) All legal prerequisites to the adoption of the Resolution have occurred.

B. Resolution.

NOW, THEREFORE, the City Council of the City of Buena Park does hereby find, determine and resolve as follows:

1. The proposed General Plan Amendment will be consistent with the goals, policies, purposes, objectives, and programs of the City's General Plan. The proposed

General Plan Amendment will provide additional affordable housing to enhance the viability of the City's residential development consistent with the General Plan with policies including, but is not limited to:

> Policy LU-4.3: Promote the clustering of development adjacent to transportation facilities including amenities to encourage transportation and service nodes.
>
> Policy LU-5.1: Ensure Buena Park is in compliance with applicable state and regional housing mandates.
>
> Policy LU-6.1: Provide for housing opportunities that address the needs of those who currently live or desire to live in Buena Park.
>
> Policy LU-6.3: Locate affordable housing adjacent to jobs, retail, schools, open space, and public transportation.
>
> Policy LU-6.5: Encourage integration of residential uses within mixed-use development.
>
> Policy LU-6.6: Provide a wide range of housing options for Buena Park residents, including owner and rental housing adjacent to jobs, shopping, and transit.
>
> Policy LU-8.1: Encourage a variety of creative methods for supplying affordable housing.

2. The proposed General Plan Amendment will promote the orderly development of the City and the public health, safety, and welfare by enhancing and maintaining sound and logical land use and development practices guided by the Land Use & Community Design Element.

3. The proposed General Plan Amendment will increase and not diminish the land available for housing within the City. The proposed General Plan Amendment will provide added housing opportunities to enhance the viability of the City's affordable housing supply.

4. The proposed General Plan Amendment will maintain and improve the viability of the housing stock within the area in a manner consistent with the character of surrounding neighborhoods and will promote the orderly development of the subject property.

5. The proposed General Plan Amendment will promote maintenance and improvement within the area, thereby enhancing and conserving the neighborhood property values.

6. The City Council finds that General Plan Amendment GP-22-2 will have a positive effect on land available for housing within the City. The Project will provide added housing opportunities to enhance the viability of the City's housing supply.

7. The City Council finds that General Plan Amendment GP-22-2 will encourage the Applicant to improve the property with the highest and best land uses for the subject property. The proposed General Plan Amendment will provide additional land for

affordable residential development.

8. The City Council finds that facts supporting the above-specified finding are contained in the staff report and exhibits, and information provided to this Council during the public hearing conducted with respect to the Project.

9. The City Council has reviewed and considered all components of the requested General Plan Amendment including compliance with CEQA through the preparation of an Initial Study/ Mitigate Negative Declaration (IS/MND) by separate resolution adopted with consideration of this resolution, the City Council has determined that the IS/MND is legally adequate and that the Project would not result in any new or substantially more severe significant environmental impacts than those considered and addressed in the IS-MND.

10. The City Council of the City of Buena Park hereby approves and adopts General Plan Amendment GP-22-2, amending the Land Use and Community Design Element.

11. The City Clerk shall Certify to the adoption of this Resolution.

PASSED AND ADOPTED this 10th day of October 2023 by the following called vote:

AYES: COUNCILMEMBERS: Castañeda, Sonne, Ahn, Traut, Brown

NOES: COUNCILMEMBERS: None

ABSENT: COUNCILMEMBERS: None

ABSTAINED: COUNCILMEMBERS: None

Mayor

ATTEST:

City Clerk

I, Adria M. Jimenez, MMC, City Clerk, hereby certify that the foregoing Resolution was duly and regularly passed and adopted at a regular meeting of the City Council of the City of Buena Park held this 10th day of October 2023.

City Clerk

ENVIRONMENTAL REVIEW RECORDS (ERRS)

ERR No. 1. Airport Hazards

OMB No. 2506-0177
(exp.9/30/2021)

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 3.2 miles northwest of the project site.

See Attachment 1.

ERR No. 2. Coastal Barrier Resources

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		
https://www.hudexchange.info/environmental-review/coastal-barrier-resources		

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 2.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

ERR No. 3. Flood Insurance

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		
https://www.hudexchange.info/environmental-review/flood-insurance		

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 #06059C0109J, effective on December 3, 2009, accessed at https://msc.fema.gov/portal/home, the project site is within Zone X (0.2% Annual Chance Flood Hazard). 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 (see Attachment 3). According to the National Flood Insurance Program (NFIP) Community Status Book accessed at https://www.fema.gov/flood-insurance/work-with-nfip/community-status-book, the project site is in Community ID 060215#, which is a participating community in the NFIP. However, because no structures or insurable property are located 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.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

ERR No. 4. Air Quality

OMB No. 2506-0177
(exp.9/30/2021)

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.

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. See Attachment 4.

ERR No. 5. Coastal Zone Management Act

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		
https://www.onecpd.info/environmental-review/coastal-zone-management		

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 5).

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

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

OMB No. 2506-0177
(exp. 9/30/2021)

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.

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?** [1] **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 occupied by a vacant commercial building and associated parking lot. The Phase I ESA conducted by Integrated Property Analysis, Inc. in August 2022 did not find any recognized environmental conditions (RECs) onsite. No hazardous materials or petroleum products were observed.

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

   ☐ Yes → *Describe the findings, including any recognized environmental conditions (RECs), in Worksheet Summary below. Continue to Question 3.*

[1] 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.

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*[2] *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**[3]**, or use of institutional controls**[4]**.**

   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

The Phase I ESA did not identify any Recognized Environmental Conditions or any on-site or nearby toxic, hazardous, or radioactive substances that could affect the health and safety of project occupants or conflict with the intended use of the property.

An Asbestos Inspection Report and a Lead-Based Paint Inspection Report were conducted by Barr & Clark Independent Environmental Testing in October 2019. Both asbestos and lead-based paints were found during the inspections. Mitigation measures included in the inspection reports would be implemented as part of the proposed project to avoid exposure during the construction and operational phases (see Attachments 6 and 7).

[2] 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.

[3] 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.

[4] 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.

ERR No. 7. Endangered Species Act

OMB No. 2506-0177
(exp.9/30/2021)

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's IPaC database was used to identify federally protected species at the project site. Seven 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 surrounding the project site, no federally listed special-status plant or wildlife species are expected to be present due to the lack of suitable habitat (see Attachment 8).

ERR No. 8. Explosive and Flammable Hazards

OMB No. 2506-0177
(exp.9/30/2021)

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

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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 <u>NOT</u> 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:

- 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/

The CalEPA Regulated Site Portal website was reviewed to identify existing ASTs within 1 mile of the project site. 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. Results identified 13 chemical storage facilities and no aboveground petroleum storage within a 1-mile radius of the project site (see Attachment 9). All chemicals that were located at a gas station or fueling store were assumed to be stored underground and therefore exempt from 24 CFR Part 51C. Chemicals not listed as a hazardous substance in Appendix I to Subpart C of Part 51 were also considered exempt from this analysis. Once the sites considered exempt from 24 CFR Part 51C were removed, the acceptable separation distances were calculated for the five remaining locations. 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 Acceptable Separation Distances.

All five 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 Acceptable Separation Distance (ASD) calculations for the sites that contain materials listed 24 CFR 51C are provided in Attachment 9.

ERR No. 9. Farmlands Protection

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.)	7 CFR Part 658
Reference		
https://www.hudexchange.info/environmental-review/farmlands-protection		

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:

   → *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=nrcs or your NRCS state soil scientist 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 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.)
   - 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. There are no important farmlands on the project site or in adjacent areas (see Attachment 10). The project is in compliance with the Farmland Protection Policy.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

ERR No. 10. Floodplain Management

OMB No. 2506-0177
(exp. 9/30/2021)

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

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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 the FEMA FIRM map for the site, the project site is in Zone X, an area outside of the Special Flood Management Areas and at a higher elevation than the 0.2% annual chance flood areas (FIRM Panel 06059C0109J Effective December 2009). See Attachment 3.

ERR No. 11. Historic Preservation

OMB No. 2506-0177
(exp. 9/30/2021)

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.
7101 Lincoln Avenue
Buena Park, CA 90620

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.
The California State Historic Preservation Office (SHPO) was consulted in November 2022 to identify the presence of any known historical or cultural resources on the project site. After a waiting period of approximately 6 weeks, SHPO responded to Orange County (County) with an email stating that, due to the high number of incoming project requests, they would not be able to respond to the County's request in a timely manner. 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 SHPO are complete.

☐ 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)

OMB No. 2506-0177
(exp. 9/30/2021)

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:

→ *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: The DNL Calculator found on the HUD Exchange web site is typically used to predict exterior noise levels at the project site from the nearby roadways, rail activity, and aircraft. A preliminary noise analysis for the proposed project was calculated using the HUD DNL Electronic Assessment Tool. Results of the analysis indicated that worst-case exterior building façade noise levels would be approximately 70 dBA DNL, above HUD's threshold of 65 dBA DNL. However, due to the complexity of the topographical conditions at this site, the Federal Highway Administration's (FHWA) Traffic Noise Model (TNM) version 2.5 (FHWA 2004) was used to perform a more detailed noise analysis. The highest noise levels for the proposed project would occur at the first building row facing south, and closest to Lincoln Avenue. Traffic noise levels at the building façade are predicted to be 68 dBA DNL at the first, second and third floors, exceeding the HUD exterior noise standard of 65 dBA DNL by 3 dB at the façade of units nearest these roadways, putting these receivers in the "normally unacceptable" noise range. Traffic noise levels at the other residential buildings onsite would be less than the HUD exterior noise standard of 65 dBA DNL and within the "normally acceptable" noise range. Traffic noise levels at outdoor spaces onsite would also be within the "normally acceptable" noise range.

<u>If project is rehabilitation:</u>

→ *Continue to Question 4. Provide noise analysis, including noise level and data used to complete the analysis.*

<u>If project is new construction:</u>

Is the project in a largely undeveloped area[1]?

☒ 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)

Indicate noise level here: Click here to enter text.

<u>If project is rehabilitation:</u>

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.

[1] 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.

→ *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 indoor noise levels to within the HUD threshold of 45 A-weighted decibels day-night average sound level (dBA DNL). Mitigation would include upgrading windows and doors in the south-facing residential units of the first building row (i.e., the nearest residential units with doors and windows facing Lincoln Avenue) to an Sound Transmission Class rating of 30 or greater, and providing residential units with a forced-air heating, ventilation, and air conditioning (HVAC) system in each unit that provides additional ventilation to keep the indoor air quality high, even with the windows closed. As a result of the noise mitigation included, interior noise levels at the units with the highest exterior noise levels is predicted to decrease to below 43 dBA DNL, which is within the HIUD interior requirement of 45 dBA DNL. Complete details on noise monitoring and results are provided in the Technical Noise Memorandum, Dudek, December 2022.

→ *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 Technical Noise Memorandum , Dudek, December 2022 (Attachment 12) .

ERR No. 13. Sole Source Aquifers

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		
https://www.hudexchange.info/environmental-review/sole-source-aquifers		

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)[1]?**

   ☒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.

   ☐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.*

[1] 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.

☐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. <u>If EPA determines that the project continues to pose a significant risk to the aquifer, federal financial assistance must be denied.</u> 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's 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 (see Attachment 13). The proposed project is in compliance with the Safe Water Drinking Act.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

ERR No. 14. Wetlands

OMB No. 2506-0177
(exp.9/30/2021)

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 (see Attachment 14). The nearest wetland to the project site is a freshwater pond located approximately 2.62 miles northeast of the project site at the Dad Miller Golf Course. As a result, the proposed project is in compliance with Executive Order 11990.

ERR No. 15. Wild and Scenic Rivers

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		
https://www.hudexchange.info/environmental-review/wild-and-scenic-rivers		

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 National Park Service's (NPS) Interactive Map of NPS Wild and Scenic Rivers, accessible at https://www.nps.gov/orgs/1912/plan-your-visit.htm, the project site does not contain any rivers protected under the Wild and Scenic Rivers Act (see Attachment 15). 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.

Are formal compliance steps or mitigation required?

☐ Yes

☒ No

ERR No. 16. Environmental Justice

OMB No. 2506-0177
(exp.9/30/2021)

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 has one commercial tenant 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 high traffic volume along Lincoln Avenue. However, implementation of mitigation measures would reduce adverse noise impacts at the project site to below HUD thresholds. Implementation of mitigation measures from the asbestos-containing materials (ACMs) report and lead-based paint (LBP) report would prevent potential impacts associated with handling these materials during the construction phase. ACMs and LBPs would not be used in construction of the proposed project and would not impact residents during the operational phase. 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.

→ *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 redevelopment of the existing single-level commercial building and associated parking lot into an affordable multi-family residential rental project with 55 family units, including 13 permanent supportive housing (PSH) units, and 82 parking spots. The family units would be divided into 14 one-bedroom units, 23 two-bedroom units, and 18 three-bedroom units. Approximately 17 units would be reserved for tenants with an income of 30% of the area median income (AMI), 9 units would be held for residents earning 40% AMI, 13 units would be reserved for tenants earning 60% AMI, and 15 units would be reserved for tenants earning 70% AMI. The proposed project would provide a transition to permanent housing for families formerly experiencing homelessness or families at-risk of experiencing homelessness. By adding 55 units to the City of Buena Park's affordable housing stock, the proposed project would support the goals outlined in the Buena Park 2013–2021 Housing Element.

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.** The Technical Noise Memo for the proposed project prepared by Dudek in December 2022 determined that exposure from traffic generated along Lincoln Avenue is the primary noise source for the development. The southern façades of the proposed residential units would face Lincoln Avenue. Mitigation measures would reduce noise to within HUD thresholds (see ERR 12 for more information). Traffic noise levels at the building façade are predicted to be 68 A-weighted decibels day-night average sound level (dBA DNL) at the first, second, and third floors, exceeding the HUD exterior noise standard of 65 dBA DNL by 3 dB for the units nearest these roadways, putting these receivers in the "normally unacceptable" noise range. Traffic noise levels at the other residential buildings on site would be below the HUD exterior noise standard of 65 dBA DNL and within the "normally acceptable" noise range. Traffic noise levels at outdoor spaces on site would also be within the "normally acceptable" noise range. To reduce noise levels to within HUD thresholds, all residential units would be equipped with a forced-air heating, ventilation, and air conditioning (HVAC) unit that allows for a "windows closed" condition (i.e., windows do not need to be left open for ventilation). In addition, the detailed architectural design plans would upgrade window specifications so that that all windows and doors in the south-facing residential units have a Sound Transmission Class (STC) rating of 30 or greater. These mitigation measures would reduce noise to within HUD thresholds (see ERR 12 for more information).

- **Asbestos.** An Asbestos Inspection Report for the proposed project site was conducted by Barr & Clark Independent Environmental Testing in October 2019. Asbestos sampling was patterned after the Asbestos School Hazard Emergency Response Act (40 CFR 763 Subpart E). Physical bulk samples were collected from the project site and analyzed for asbestos content by an independent environmental laboratory (see Asbestos Phase II ESA, 2019). Asbestos was detected in samples of construction materials, including roofing mastic, flooring mastic, mirror mastic, and asbestos cement pipes. Asbestos identified during the site visit was in good condition except for the flooring mastic, which was damaged. No further action is required for the asbestos-containing materials

(ACMs) found in good condition because they present minimal risk for asbestos exposure. However, ACMs in damaged condition present a risk for asbestos exposure. The report recommends that all damaged and/or significantly damaged ACMs be removed following South Coast Air Quality Management District's Rule 1403 Procedure 5. An asbestos abatement contractor registered with the Division of Occupational Safety and Health must perform any work that disturbs these materials (see ERR 6).

- **Lead-Based Paint.** A Lead-Based Paint Inspection Report for the project site was conducted by Barr & Clark Independent Environmental Testing in October 2019. Lead-based paints (LBPs) were sampled using an RMD LPA-1 XRF (x-ray fluorescence) spectrum analyzer instrument. Testing was completed according to the inspection protocol in Chapter 7 of the HUD Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing. LBP thresholds for action in the Phase II ESA were obtained from HUD /EPA ordinance 24 CFR 35.86 and 40 CFR 745.103. Throughout the subject property, several of the painted samples tested indicated the presence of LBP at or above the action level. The report recommends that the results of the LBP inspection be provided to any individuals who may disturb the painted surfaces at the project site. Additionally, professionals who have experience working with LBPs should perform the work. The report provides additional recommendations for LBP removal/replacement and creation of an Operations & Management Plan (see ERR 6).

- **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 (see **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.

- **Erosion/ Drainage/ Storm Water Runoff**: Construction activities may temporarily increase impacts from erosion, drainage, and stormwater runoff. However, with the implementation of best management practices per the guidance of the California Stormwater Quality Association Stormwater Best Management Practice Handbooks for Construction, for New Development/Redevelopment, and for Industrial and Commercial (or other similar source as approved by Orange County) and the requirements of the National Pollutant Discharge Elimination System construction stormwater quality permit (see **MM-LAND-1** and **MM-LAND-2**), the potential temporary impacts would be minimized and kept on-site to the greatest extent possible. Therefore, no disproportionate impacts to low income and/or minority communities would occur as a result of erosion, drainage, and stormwater runoff.