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By E-mail

October 16, 2023

Jennifer K. Clark, Director Rob Holt, Supervising Planner Philip Siegrist, Planner Planning and Development Department City of Fresno 2600 Fresno Street Fresno, CA 93721 Jennifer.Clark@fresno.gov Robert.Holt@fresno.gov Philip.Siegrist@fresno.gov

Re: Appeal of the City of Fresno Planning Commission's Approval of the Development Permit Application No. P22-04122 and Related Environmental Assessment No. P22-04122, and the City of Fresno's Approval of the Mitigated Negative Declaration for the Living Spaces Retail Project

Dear Director Clark, Mr. Holt, and Mr. Siegrist:

I am writing on behalf of the Laborers International Union of North America, Local Union No. 294 ("LIUNA") and its members living and/or working in or around the City of Fresno ("City"). On August 8, 2023, LIUNA appealed the Planning and Development Department Director's Decision to approve the Development Permit Application No. P22-04122 and Related Environmental Assessment No. P22-04122 on July 24, 2023, and the City's approval of the Mitigated Negative Declaration ("MND") (Document No. E202310000130) on July 25, 2023 for the project known as the Living Spaces Retail Project located on the east side of North Abby Street between East Alluvial and East Spruce Avenues (APN: 303-201-27) in the City and County of Fresno, California by applicant Living Spaces ("Project"). On October 4, 2023, the Planning Commission heard both of the appeals and upheld the Development Permit and recommended that the City Council approve the MND. LIUNA now files this further appeal of the Planning Commission's decision on the Development Permit for the Project and reiterates its pending appeal of the MND prepared for the Project. These appeals are filed pursuant to the City of Fresno Municipal Code section 15-5005, establishing procedures for appealing California Environmental Quality Act ("CEQA") determinations to the City Council, and Municipal Code section 15-5017, establishing the procedures for appealing Planning Commission decisions by filing a written appeal with the Director. Members of LIUNA live and/or work in the vicinity of the proposed Project. They breathe the air, enjoy observing wildlife, want to ensure maximum energy efficiency, and will suffer other environmental impacts of the Project unless it is properly

Living Spaces Retail Project
Appeal of Development Permit Application No. P22-04122;
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mitigated.

LIUNA is concerned that the MND prepared for the Project fails to comply with CEQA and that the Planning and Development Department and the Planning Commission did not adequately address LIUNA's May 26, 2023 comments, which are included at Attachment 1 to this letter and incorporated by reference in this appeal, as well as LIUNA's October 3, 2023 supplemental comments, which are included at Attachment 2 to this letter and incorporated by reference in this appeal. Specifically, the MND fails to adequately analyze the potential significant environmental impacts of the Project, including impacts to biological resources, including impacts on burrowing owls and nesting birds, air quality, health risks, and energy impacts. The City adopted the MND and approved a Development Permit Application for the Project despite evidence in the record establishing substantial evidence of a fair argument that the Project will have significant environmental impacts. Given the fact that the record contains a fair argument that the Project will have significant environmental impacts, the Planning and Development Department should have prepared an EIR for the Project rather than an MND and refrained from approval of the Development Permit Application until the proper CEQA review was performed.

Sincerely,

Victoria Yundt

LOZEAU DRURY LLP

Victoria print

# **ATTACHMENT 1**



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May 26, 2023

Via E-mail

Robert Holt, Supervising Planner City of Fresno Planning and Development Department 2600 Fresno Street, Room 3043 Fresno, CA 93721 Robert.Holt@fresno.gov City of Fresno Planning and Development Department 2600 Fresno Street, Room 3043 Fresno, CA 93721 PublicCommentsPlanning@fresno.gov

Re: Comment on Initial Study and Mitigated Negative Declaration for the Development Permit Application No. P22-04122

Dear Mr. Holt and City of Fresno Planning and Development Department:

I am writing on behalf of Laborers International Union of North America, Local Union 294 and its members living in the City of Fresno ("LIUNA"), regarding the Environmental Assessment No. P22-04122 and Development Permit Application No. P22-04122, submitted by Living Spaces (the "Applicant"), and prepared for the Project, including all actions related or referring to the proposed development of an approximately 104,867 square-foot furniture retail store and showroom and associated parking, to be located upon an approximately 8-acre site at the east side of North Abby Street between East Alluvial and East Spruce Avenues, in Fresno, California (the "Project").

LIUNA is concerned that the Initial Study and Mitigated Negative Declaration ("IS/MND" or "MND") prepared for the Project is legally inadequate. After reviewing the MND, we conclude that it fails as an informational document, and that there is a fair argument that the Project may have adverse environmental impacts. Therefore, we request that the City of Fresno (the "City") prepare an environmental impact report ("EIR") for the Project pursuant to the California Environmental Quality Act ("CEQA"), Public Resources Code ("PRC") section 21000, et seq.

#### PROJECT DESCRIPTION

The proposed Project is for the construction and operation of an approximately 104,867 square-foot furniture retail store and showroom and associated parking. More specifically, the Project would include an 81,608 square-foot showroom, a 4,682 square-foot stockroom and attached loading zone for delivery vehicles and customer pick up in the northeast corner, as well as other features. The Project would also include 298 parking stalls, including 30 electrical vehicle (EV) stalls and 36 clean air/vanpool parking stalls.

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The Project site is an approximately 8-acre site located in the City of Fresno with commercial and residential uses to the west. Single-family residences are located approximately 65 feet west of the Project site across North Abby Street. The Pinedale Elementary School is about 900 feet to the west of the Project site. The site is primarily vacant, with the exception of two concrete utility structures located on the southwest corner and the central portion of the project site respectively.

The City prepared an initial study and mitigated negative declaration for the proposed Project, which found that the Project would have no potentially significant impacts. However, as discussed below, the Project may have significant biological resources, energy, air quality, and health risk impacts requiring that the City prepare an EIR.

#### **LEGAL STANDARD**

As the California Supreme Court has held, "[i]f no EIR has been prepared for a nonexempt project, but substantial evidence in the record supports a fair argument that the project may result in significant adverse impacts, the proper remedy is to order preparation of an EIR." (Communities for a Better Env't v. South Coast Air Quality Mgmt. Dist. (2010) 48 Cal.4th 310, 319-320 (CBE v. SCAQMD) (citing No Oil, Inc. v. City of Los Angeles (1974) 13 Cal.3d 68, 75, 88; Brentwood Assn. for No Drilling, Inc. v. City of Los Angeles (1982) 134 Cal.App.3d 491, 504–505).) "Significant environmental effect" is defined very broadly as "a substantial or potentially substantial adverse change in the environment." (Pub. Res. Code ("PRC") § 21068; see also 14 CCR § 15382.) An effect on the environment need not be "momentous" to meet the CEQA test for significance; it is enough that the impacts are "not trivial." (No Oil, Inc., 13 Cal.3d at 83.) "The 'foremost principle' in interpreting CEQA is that the Legislature intended the act to be read so as to afford the fullest possible protection to the environment within the reasonable scope of the statutory language." (Communities for a Better Env't v. Cal. Res. Agency (2002) 103 Cal.App.4th 98, 109 (CBE v. CRA).)

The EIR is the very heart of CEQA. (Bakersfield Citizens for Local Control v. City of Bakersfield (2004) 124 Cal.App.4th 1184, 1214 (Bakersfield Citizens); Pocket Protectors v. City of Sacramento (2004) 124 Cal.App.4th 903, 927.) The EIR is an "environmental 'alarm bell' whose purpose is to alert the public and its responsible officials to environmental changes before they have reached the ecological points of no return." (Bakersfield Citizens, 124 Cal.App.4th at 1220.) The EIR also functions as a "document of accountability," intended to "demonstrate to an apprehensive citizenry that the agency has, in fact, analyzed and considered the ecological implications of its action." (Laurel Heights Improvements Assn. v. Regents of Univ. of Cal. (1988) 47 Cal.3d 376, 392.) The EIR process "protects not only the environment but also informed self-government." (Pocket Protectors, 124 Cal.App.4th at 927.)

An EIR is required if "there is substantial evidence, in light of the whole record before the lead agency, that the project may have a significant effect on the environment." (PRC § 21080(d); see also Pocket Protectors, 124 Cal.App.4th at 927.) In very limited circumstances, an agency may avoid preparing an EIR by issuing a negative declaration, a written statement

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briefly indicating that a project will have no significant impact thus requiring no EIR (14 CCR § 15371), only if there is not even a "fair argument" that the project will have a significant environmental effect. (PRC §§ 21100, 21064.) Since "[t]he adoption of a negative declaration . . . has a terminal effect on the environmental review process," by allowing the agency "to dispense with the duty [to prepare an EIR]," negative declarations are allowed only in cases where "the proposed project will not affect the environment at all." (*Citizens of Lake Murray v. San Diego* (1989) 129 Cal.App.3d 436, 440.)

Where an initial study shows that the project may have a significant effect on the environment, a mitigated negative declaration may be appropriate. However, a mitigated negative declaration is proper *only* if the project revisions would avoid or mitigate the potentially significant effects identified in the initial study "to a point where clearly no significant effect on the environment would occur, and...there is no substantial evidence in light of the whole record before the public agency that the project, as revised, may have a significant effect on the environment." (PRC §§ 21064.5, 21080(c)(2); *Mejia v. City of Los Angeles* (2005) 130 Cal.App.4th 322, 331.) In that context, "may" means a reasonable possibility of a significant effect on the environment. (PRC §§ 21082.2(a), 21100, 21151(a); *Pocket Protectors*, 124 Cal.App.4th at 927; *League for Protection of Oakland's etc. Historic Res. v. City of Oakland* (1997) 52 Cal.App.4th 896, 904–05.)

Under the "fair argument" standard, an EIR is required if any substantial evidence in the record indicates that a project may have an adverse environmental effect—even if contrary evidence exists to support the agency's decision. (14 CCR § 15064(f)(1); *Pocket Protectors*, 124 Cal.App.4th at 931; *Stanislaus Audubon Society v. County of Stanislaus* (1995) 33 Cal.App.4th 144, 150-51; *Quail Botanical Gardens Found., Inc. v. City of Encinitas* (1994) 29 Cal.App.4th 1597, 1602.) The "fair argument" standard creates a "low threshold" favoring environmental review through an EIR rather than through issuance of negative declarations or notices of exemption from CEQA. (*Pocket Protectors*, 124 Cal.App.4th at 928.)

The "fair argument" standard is virtually the opposite of the typical deferential standard accorded to agencies. As a leading CEQA treatise explains:

This 'fair argument' standard is very different from the standard normally followed by public agencies in their decision making. Ordinarily, public agencies weigh the evidence in the record and reach a decision based on a preponderance of the evidence. [Citation]. The fair argument standard, by contrast, prevents the lead agency from weighing competing evidence to determine who has a better argument concerning the likelihood or extent of a potential environmental impact.

(Kostka & Zishcke, *Practice Under the California Environmental Quality Act*, §6.37 (2d ed. Cal. CEB 2021).) The Courts have explained that "it is a question of law, not fact, whether a fair argument exists, and the courts owe no deference to the lead agency's determination. Review is de novo, with *a preference for resolving doubts in favor of environmental review*." (*Pocket Protectors*, 124 Cal.App.4th at 928 (emphasis in original).)

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For over forty years the courts have consistently held that an accurate and stable project description is a bedrock requirement of CEQA—the *sine qua non* (that without which there is nothing) of an adequate CEQA document:

Only through an accurate view of the project may affected outsiders and public decision-makers balance the proposal's benefit against its environmental cost, consider mitigation measures, assess the advantage of terminating the proposal (i.e., the "no project" alternative) and weigh other alternatives in the balance. An accurate, stable and finite project description is the *sine qua non* of an informative and legally sufficient EIR.

(*County of Inyo v. City of Los Angeles* (1977) 71 Cal.App.3d 185 at 192–93.) CEQA therefore requires that an environmental review document provide an adequate description of the project to allow for the public and government agencies to participate in the review process through submitting public comments and making informed decisions.

Lastly, CEQA requires that an environmental document include a description of the project's environmental setting or "baseline." (CEQA Guidelines § 15063(d)(2).) The CEQA "baseline" is the set of environmental conditions against which to compare a project's anticipated impacts. (CBE v. SCAQMD, 48 Cal.4th at 321.) CEQA Guidelines section 15125(a) states, in pertinent part, that a lead agency's environmental review under CEQA:

...must include a description of the physical environmental conditions in the vicinity of the project, as they exist at the time [environmental analysis] is commenced, from both a local and regional perspective. This environmental setting will normally constitute the baseline physical conditions by which a Lead Agency determines whether an impact is significant.

(See Save Our Peninsula Committee v. County of Monterey (2001) 87 Cal.App.4th 99, 124-25 ("Save Our Peninsula").) As the court of appeal has explained, "the impacts of the project must be measured against the 'real conditions on the ground," and not against hypothetical permitted levels. (*Id.* at 121-23.)

#### **DISCUSSION**

- I. The Project May Result in Significant Impacts to Biological Resources.
  - A. The IS/MND inadequately characterized the existing environmental setting as it relates to wildlife.

The IS/MND's baseline for biological impacts is inadequate, incomplete, and understates the biological values at the Project site. According to the IS/MND and the Biological Resources Assessment, included as Appendix B to the IS/MND, "a general biological survey of the project

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site was conducted by an LSA Biologist on January 19, 2023." (IS/MND, p. 37; IS/MND, Appendix B, p. 3.) In addition, "[a] literature review and records search was conducted on January 18, 2023, to identify the existence and potential for occurrence of sensitive or special-status plant and animal species in the project vicinity." (IS/MND, p. 36.) The IS/MND reports "no special-status species hav[ing] been identified within the project site or in the vicinity of the site." (*Id.*, p. 38.) As a result, the IS/MND concludes that "[t]he project site does not contain critical habitat that could support candidate, sensitive or special-status species." (*Id.*) However, based on the literature review and the observations made during the January 2023 biological survey of the Project site, special-status bird species could be present and/or use the site for nesting, breeding, and/or foraging.

The IS/MND reports that during the LSA biologist's field survey of the Project site, the following species were observed:

A total of seven wildlife species were observed on or near the project site during the January 2023 survey, including: American crow (Corvus brachyrhynchos), house finch (Haemorhous mexicanus), white-crowned sparrow (Zonotrichia leucophrys), black phoebe (Sayornis nigricans), California scrub jay (Aphelocoma californica), European starling (Sturnus vulgaris; nonnative species), and California ground squirrel (Otospermophilus beecheyi).

(*Id.*, p. 37.) Regarding the observation of California ground squirrels on the Project site, the IS/MND states:

While no special-status animal species (or signs of such species) were observed on site during the January 2023 survey, California ground squirrel burrows that could be used by burrowing owl (Athene cunicularia) were observed in portions of the project site. None of the burrows observed in the project site exhibited features typical of occupied burrowing owl burrows at the time of the survey, although there is some potential for use by this species in the future. Potentially significant direct and/or indirect impacts, including mortality, harassment, or other forms of incidental take, could occur if construction-related ground disturbance occurs in or around an occupied burrow.

(*Id.*) The occurrence of California ground squirrels is also significant because ground squirrels are prey of large raptors such as bald eagle, golden eagle, ferruginous hawk and Swainson's hawk. Due to the presence of ground squirrels on the Project site, protocol-level surveys should have been performed for burrowing owls and nesting birds and raptors, such as the Swainson's hawk. Instead, only a single reconnaissance-level survey was conducted on January 19, 2023. This survey was inadequate for several reasons.

First, the January 2023 field survey of the Project site does not provide substantial evidence of the presence or absence of burrowing owls on the site. The lack of evidence of burrowing owls on the Project site was not necessarily because they were not there, but because

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the survey was not conducted during the breeding season when the owls may be present and did not adhere to the survey protocols for burrowing owls prepared by the California Department of Fish and Wildlife ("CDFW"). According to CDFW:

Burrowing owls are more detectable during the breeding season with detection probabilities being highest during the nestling stage (Conway et al. 2008). In California, the burrowing owl breeding season extends from 1 February to 31 August (Haug et al. 1993, Thompsen 1971) with some variances by geographic location and climatic conditions. Several researchers suggest three or more survey visits during daylight hours (Haug and Diduik 1993, CBOC 1997, Conway and Simon 2003) and recommend each visit occur at least three weeks apart during the peak of the breeding season, commonly accepted in California as between 15 April and 15 July (CBOC 1997). Conway and Simon (2003) and Conway et al. (2008) recommended conducting surveys during the day when most burrowing owls in a local area are in the laying and incubation period (so as not to miss early breeding attempts), during the nesting period, and in the late nestling period when most owls are spending time above ground.

Non-breeding season (1 September to 31 January) surveys may provide information on burrowing owl occupancy, but do not substitute for breeding season surveys because results are typically inconclusive. Burrowing owls are more difficult to detect during the non-breeding season and their seasonal residency status is difficult to ascertain.

(Cal. Dep't Fish & Wildlife, Staff Report on Burrowing Owl Mitigation (Mar. 7, 2012), p. 6, at <a href="https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843">https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843</a> (emphasis added).) However, the biological survey of the Project site took place on January 19, 2023, which is outside of the breeding season for burrowing owls, as identified above by the CDFW. No survey was taken during the burrowing owl breeding season. The single survey that was conducted is also inconsistent with the surveys recommended in the CDFW's available survey guidelines for burrowing owls. (See, e.g., p. 28.) For example, detection surveys are needed for burrowing owls present on and in the vicinity of the Project site that are consistent with the recommendations of CDFW. An EIR should be prepared along with a report of appropriate detection surveys.

Thus, given the paucity of owls present in Fresno and the importance of that county to the breeding success of the species, the Project's baseline must be informed by protocol-level surveys that can determine the presence or absence of burrowing owls at the site. Only with an accurate baseline could the IS/MND purport to assess the impacts on that species of concern.

The same baseline problem also afflicts the IS/MND's discussion of other nesting bird species of concern on or in the vicinity of the Project site, such as the Swainson's hawk. According to the IS/MND's Biological Resources Assessment:

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The project site contains marginal foraging habitat for certain raptors such as the Swainson's hawk (*Buteo swainsoni*), although suitable tree-nesting habitat for this species is absent from the project site. . . . Mature Palm and oak trees in the vicinity and along the perimeter outside of the site in the adjacent parcels could be used by raptors and other tree-nesting species. Overall, the project site and immediate surroundings contain foraging and nesting habitat for a variety of bird species that are protected while nesting under the Migratory Bird Treaty Act and California Fish and Game Code. (IS/MND, Appendix B, p. 7.)

Because of the absence of detection surveys, the IS/MND only speculates that habitat is marginal and occurrence likelihoods low. Only with an accurate baseline could the IS/MND purport to assess the impacts on nesting raptors and other bird species of concern.

As multiple courts have explained:

The agency [will] not be allowed to hide behind its own failure to gather relevant data.... CEQA places the burden of environmental investigation on government rather than the public. If the local agency has failed to study an area of possible environmental impact, a fair argument may be based on the limited facts in the record. Deficiencies in the record may actually enlarge the scope of fair argument by lending a logical plausibility to a wider range of inferences."

(Sundstrom v. County of Mendocino (1988) 202 Cal.App.3d 296, 311; see also <u>Gentry v. City of Murrieta</u> (1995) 36 Cal.App.4th 1359, 1378–79; Christward Ministry v. Superior Court (1986) 184 Cal.App.3d 180, 197, 228 Cal.Rptr. 868 [fact that initial study checklist was incomplete and marked every impact "no" supported fair argument that project would have significant environmental effects].) Accordingly, a fair argument can be made for the need to prepare an EIR for the Project because of the lack of relevant investigation of the site's biological resources and the possible use of the site by sensitive wildlife species.

B. The pre-construction surveys identified in the IS/MND for burrowing owls and nesting birds are not sufficient to address potential impacts to birds that may be present at the Project site.

After reviewing the proposed wildlife impact mitigations identified in the IS/MND related to pre-construction surveys for burrowing owl surveys (i.e. Mitigation Measure BIO-1), and nesting birds (i.e. Mitigation Measure BIO-2), we agree with the need for such pre-construction surveys. However, these recommended burrowing owl surveys and pre-construction surveys will come too late either to disclose the Project's anticipated impacts or to fully mitigate impacts to birds, including burrowing owls and nesting raptors. Instead, detection surveys need to be performed to professional standards and that information used to disclose potential impacts and to inform the pre-construction surveys. Detection surveys are needed, because detection surveys provide the bases for impact assessments and formulation of mitigation measures. They also inform pre-construction surveys, which are otherwise performed

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in a rushed manner just ahead of construction. By failing to determine the actual baseline of burrowing owls and other nesting-bird species' reliance on the site for roosting, nesting, and foraging, and instead waiting until five to thirty days before construction to determine what roosts, nests, and birds may suffer impacts from the Project, the IS/MND fails to evaluate and mitigate the Project's potential significant impacts to special-status bird species.

## II. The IS/MND's Analysis of Energy Impacts is Conclusory and Fails to Provide Substantial Evidence that the Project's Energy Impacts are Less than Significant.

Contrary to the IS/MND, the construction and operation of the Project could potentially cause wasteful, inefficient, and unnecessary consumption of energy. (See, e.g., IS/MND, pp. 46-49.) The IS/MND states that "[t]he proposed project would increase the demand for electricity, natural gas, and gasoline." (*Id.*, p. 46.) However, the IS/MND concludes that "[t]he proposed project would not result in any potentially significant impacts related to energy, and no mitigation is required." (*Id.*, p. 49.)

Regarding the Project's construction-related gasoline impacts, the IS/MND concludes that the impacts will be less than significant, stating:

Petroleum fuels (e.g., diesel and gasoline) would be the primary sources of energy for these activities. Construction activities are not anticipated to result in an inefficient use of energy as gasoline and diesel fuel would be supplied by construction contractors who would conserve the use of their supplies to minimize their costs on the project. Energy usage on the project site during construction would be temporary in nature and would be relatively small in comparison to the State's available energy sources. Therefore, the proposed project would result in a less-than-significant impact during project construction.

(*Id.*, p. 46.)

Turning to the Project's operational energy use, the IS/MND concludes that the impacts to natural gas use, electricity consumption, and fuel use for vehicle and truck trips associated with Project operation will be less than significant because:

- [E]lectricity demand associated with the proposed project would be less than 0.1 percent of Fresno County's total electricity demand. (*Id.*, p. 47.)
- [N]atural gas demand associated with the proposed project would only be less than 0.1 percent of Fresno County's total natural gas demand. (*Id.*, pp. 47-48.)
- [V]ehicle and truck trips associated with the proposed project would increase the annual fuel use in Fresno County by less than 0.1 percent for gasoline fuel usage and by less than 0.1 percent for diesel fuel usage. (*Id.*, pp. 47-48.)

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In addition to the IS/MND's general estimates regarding the Project's construction and operational-related natural gas, electricity, and fuel use, above, the IS/MND also bases its less than significant construction and operational energy use conclusion on the following:

[The] proposed new development would be constructed using energy efficient modern building materials and construction practices, and the proposed project also would use new modern appliances and equipment, in accordance with the Appliance Efficiency Regulations (Title 20, CCR Sections 1601 through 1608). The expected energy consumption during construction and operation of the proposed project would be consistent with typical usage rates for commercial uses; however, energy consumption is largely a function of personal choice and the physical structure and layout of buildings.

(*Id.*, p. 48.)

Lastly, concerning whether or not the Project would "[c]onflict with or obstruct a state or local plan for renewable energy or energy efficiency," the IS/MND concludes:

The proposed project would not result in wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation. Because California's energy conservation planning actions are conducted at a regional level, and because the proposed project's total impact to regional energy supplies would be minor, the proposed project would not conflict with California's energy conservation plans as described in the [California Energy Commission's] Integrated Energy Policy Reports. Impacts would be less than significant, and no mitigation is required.

(IS/MND, p. 49.)

The standard under CEQA is whether the Project would result in wasteful, inefficient, or unnecessary consumption of energy resources. Failing to undertake "an investigation into renewable energy options that might be available or appropriate for a project" violates CEQA. (California Clean Energy Committee v. City of Woodland (2014) 225 Cal.App.4th 173, 213; see also, League to Save Lake Tahoe Mountain etc. v. County of Placer ("League to Save Lake Tahoe") (2022) 75 Cal.App.5th 63, 164-168.)

Energy conservation under CEQA is defined as the "wise and efficient use of energy." (CEQA Guidelines, app. F, § I.) The "wise and efficient use of energy" is achieved by "(1) decreasing overall per capita energy consumption, (2) decreasing reliance on fossil fuels such as coal, natural gas and oil, and (3) increasing reliance on renewable energy resources." (*Id.*)

Noting compliance with the California Appliance Efficiency Regulations (Cal. Code Regs., tit 20, §§ 1601–1608 (Title 20)) does not constitute an adequate analysis of energy. (*Ukiah Citizens for Safety First v. City of Ukiah* (2016) 248 Cal.App.4th 256, 264-65.) Similarly, the court in *City of Woodland* held unlawful an energy analysis that relied on

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compliance with California Building Energy Efficiency Standards (Cal. Code Regs., tit. 24, part 6 (Title 24)), that failed to assess transportation energy impacts, and that failed to address renewable energy impacts. (25 Cal.App.4th at pp. 209-13.) As such, the IS/MND's reliance on Title 20's Appliance Efficiency Regulations does not satisfy the requirements for an adequate discussion of the Project's energy impacts.

The IS/MND summarily concludes that the Project would not result in the inefficient, wasteful, and unnecessary consumption of energy. There is no discussion of the Project's cost effectiveness in terms of energy requirements. There is no adequate discussion of energy consuming equipment and processes that will be used during the construction or operation of the Project, including, *inter alia*, the energy necessary for heating, cooling, and ventilation of buildings; water heating; operation of electrical systems; and indoor, outdoor, and perimeter lighting. The Project's energy use efficiencies by amount and fuel type for building maintenance was also not identified.

The IS/MND attempts to satisfy the analysis of energy impacts by estimating the Project's percentage of energy use compared to energy and fuel use for the entirety of Fresno County. CEQA prohibits this type of "drop in the bucket" analysis. (*See Kings Cnty. Farm Bureau v. City of Hanford* (1990) 221 Cal.App.3d 692, 718; *Friends of Oroville v. City of Oroville* (2013) 219 Cal. App. 4th 83, 842.)

In addition, the effect of the Project on peak and base period demands for electricity has not been addressed. This is of particular concern given recent events where California's electric grid was significantly impacted by an unprecedented high energy demand as a result of a prolonged, record-breaking heat wave that affected the entire State of California for multiple days. For example, at the start of September 2022, California experienced extreme heat, with temperatures across the state 10 to 20 degrees hotter than normal, driving up energy demand and straining power generation equipment as people ran their air conditioning. On September 6, 2022, as a result of electricity supplies running low in the face of record heat and demand, the California Independent System Operator (Cal-ISO) issued an Energy Emergency Alert (EEA) 3. the highest energy alert, authorizing the grid operator to order rotating power outages to lower demand and stabilize the system if necessary. As grid conditions worsened, energy supplies were determined to be insufficient to cover demand and reserves, and an EEA 3 was declared, meaning controlled power outages were imminent or in process according to each utility's emergency plan. The EEA 3 was in response to an evening peak electricity demand that was forecasted at more than 52,000 megawatts, which Cal-ISO stated was "a new historic all-time high for the grid, as the state endured the hottest day in this prolonged, record-breaking heat wave." Here, the IS/MND fails to adequately analyze energy conservation. As such, the IS/MND's conclusions are unsupported by the necessary discussions of the Project's energy impacts under CEQA.

In addition, under *League to Save Lake Tahoe*, the agency has to implement all feasible energy mitigation measures unless it has substantial evidence to show that the proposed measures are infeasible. (*Save Lake Tahoe*, 75 Cal.App.5th at 166-168; see also, *id.*, pp. 159-163.) An example of a feasible mitigation measure, which has recently been adopted as a new

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ordinance in San Francisco, is the requirement that 100% of parking spaces have electric vehicle charging stations. According to the IS/MND, of the 298 parking stalls included in the Project, only "30 electrical vehicle (EV) stalls" would be provided. (IS/MND, p. 3.) Since requiring all parking stalls to be EV stalls is likely feasible, the IS/MND must implement it as an energy efficient mitigation measure, or at minimum, provide substantial evidence that implementing the mitigation measure is unfeasible. As such, the IS/MND's conclusions are unsupported by the necessary discussions of the Project's energy impacts under CEQA.

In conclusion, because the IS/MND failed to adequately analyze and mitigate the Project's potentially wasteful, inefficient, and unnecessary consumption of energy, an EIR should be prepared to address the Project's potential significant energy impacts, and to mitigate those impacts accordingly.

## III. The IS/MND Fails to Adequately Evaluate and Mitigate Health Risks from Diesel Particulate Matter Emissions.

One of the primary emissions of concern regarding health effects for land development projects is diesel particulate matter ("DPM"), which can be released during Project construction and operation. DPM consists of fine particles with a diameter less than 2.5 micrometers including a subgroup of ultrafine particles (with a diameter less than 0.1 micrometers). Diesel exhaust also contains a variety of harmful gases and cancer-causing substances. Exposure to DPM is a recognized health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. According to the California Air Resources Board ("CARB"), DPM exposure may lead to the following adverse health effects: aggravated asthma; chronic bronchitis; increased respiratory and cardiovascular hospitalizations; decreased lung function in children; lung cancer; and premature deaths for those with heart or lung disease.

An EIR should be prepared to evaluate the significant health impacts to individuals and workers from the Project's operational and construction-related DPM. The IS/MND incorrectly concluded that the Project would have a less-than-significant health risk impact without conducting a quantified construction or operational health risk analysis ("HRA"). (See, IS/MND, p. 32.) Given the proximity of the Project to single-family residences within 65 feet of the Project site and Pinedale Elementary School within 1,000 feet of the Project site, construction and operational HRAs need to be prepared to determine the potential significant health risk impacts to families, students, and teachers from DPM emissions related to the Project. As such, the IS/MND's evaluation of the Project's potential health risk impacts, as well as the subsequent less-than-significant impact conclusion, is incorrect for two reasons.

First, by failing to prepare a quantified construction and operational HRA, the Project is inconsistent with CEQA's requirement to correlate the increase in emissions that the Project would generate to the adverse impacts on human health caused by those emissions. The IS/MND's conclusion is also inconsistent with the most recent guidance published by the Office of Health Hazard Assessment ("OEHHA"). (See, "Risk Assessment Guidelines: Guidance

Development Permit Application No. P22-04122 Comment on IS/MND May 26, 2023 Page 12 of 12

Manual for Preparation of Health Risk Assessments." OEHHA, February 2015, *available at:* https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf.)

Second, by failing to prepare a quantified construction and operational HRA for nearby, existing sensitive receptors, the IS/MND fails to compare the excess health risk impact of the Project to the San Joaquin Valley Air Pollution Control District's ("SJVAPCD") specific numeric threshold of 10 in one million. Without conducting a quantified construction and operational HRA, the IS/MND also fails to evaluate the cumulative lifetime cancer risk to nearby, existing receptors from the Project's construction and operation together. This is incorrect, and as a result, the IS/MND's evaluation cannot be relied upon to determine Project significance. OEHHA guidance requires that the excess cancer risk be calculated separately for all sensitive receptor age bins, then summed to evaluate the total cancer risk posed by all Project activities. Therefore, in accordance with the most relevant guidance, an assessment of the health risk posed to nearby, existing receptors from Project construction and operation should have been conducted.

Lastly, the IS/MND relies on inadequate mitigation (i.e. Mitigation Measure Air-1) to support its conclusion that the Project will result in less-than-significant health risk impacts from construction-related emissions. (See, e.g., IS/MND, pp. 32-33.) Mitigation Measure Air-1 only requires certain controls consistent with SJVAPCD Regulation VIII (Fugitive PM10 Prohibitions) to be included as specifications for the Project and implemented at the construction site. (*Id.*) The IS/MND should also require construction equipment used at the Project site to meet Tier 4 Final emissions standards to reduce construction-related emissions as well as the adverse health risk impacts of those emissions on nearby sensitive receptors.

#### **CONCLUSION**

For the foregoing reasons, LIUNA requests that an EIR be prepared for the Project and that it be circulated for public review and comment in accordance with CEQA. Thank you for your consideration of these comments.

Sincerely,

Victoria Yundt

LOZEAU | DRURY LLP

Victoria Charact

## **ATTACHMENT 2**

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October 3, 2023

#### Via E-mail

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Brad Hardie, Vice Chair
David Criner, Commissioner
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Re: Supplemental Comment in Support of LIUNA's Appeals of the City of Fresno Planning and Development Department Director's Decision to Approve the Development Permit Application No. P22-04122 and Related Environmental Assessment No. P22-04122, Including the Mitigated Negative Declaration for the Living Spaces Retail Project (October 4, 2023 Planning Commission Agenda Item VIII-A)

Dear Chairperson Vang, Vice Chair Hardie, Honorable Members of the City of Fresno Planning Commission, Director Clark, Mr. Holt, and Mr. Siegrist:

I am writing on behalf of Laborers International Union of North America, Local Union 294 and its members living in the City of Fresno ("LIUNA"), regarding the Environmental Assessment No. P22-04122 and Development Permit Application No. P22-04122, submitted by Living Spaces (the "Applicant"), and prepared for the proposed development of an approximately 104,867 square-foot Living Spaces furniture retail store and showroom and associated parking, to be located upon an approximately 8-acre site at the east side of North Abby Street between East Alluvial and East Spruce Avenues, in Fresno, California (the "Project"), which is scheduled to be heard on appeal by the City of Fresno ("City") Planning Commission on October 4, 2023.

LIUNA submitted comments on the original Initial Study and Mitigated Negative Declaration ("IS/MND" or "MND") on May 26, 2023. On July 24, 2023, Planning and Development Department Director, pursuant to Fresno Municipal Code (FMC) Section 15-5009, approved the Development Permit Application No. P22-04122 and Environmental Assessment No. P22-04122 filed by Living Spaces. On August 8, 2023, LIUNA timely appealed the Director's July 24, 2023 approval decisions.

Living Spaces Retail Project, Planning Commission Agenda Item VIII-A Appeals of Development Permit Application No. P22-04122 & Related Environmental Assessment No. P22-04122 October 3, 2023 Page 2 of 9

As noted in LIUNA's May 26, 2023 comment letter and July 24, 2023 appeal, LIUNA is concerned that the IS/MND prepared for the Project is legally inadequate. After reviewing the MND, we conclude that it fails as an informational document, and that there is a fair argument that the Project may have adverse environmental impacts. Therefore, we request that the City of Fresno (the "City") prepare an environmental impact report ("EIR") for the Project pursuant to the California Environmental Quality Act ("CEQA"), Public Resources Code ("PRC") section 21000, et seq. This supplemental comment on the IS/MND has been prepared with the expert assistance of wildlife biologist Dr. Shawn Smallwood, Ph.D. Mr. Smallwood's comment and his resume are attached as Exhibit A hereto and incorporated herein by reference in their entirety.

#### **DISCUSSION**

## I. The MND Fails to Adequately Analyze and Mitigate the Potential Adverse Impacts of the Project on Wildlife.

After review of the IS/MND, wildlife biologist Dr. Shawn Smallwood, Ph.D., concludes that the Project may have significant impacts on several special status species. An EIR is required to mitigate these impacts.

Dr. Smallwood's conclusions were informed by his site visits in June 2023. Dr. Smallwood visited the site for 1.75 hours from 18:25 to 20:10 hours on June 5, 2023. He visited again the next day on June 6, 2023 for 3 hours from 05:36 hours to 08:36 hours. During the site visits, Dr. Smallwood "saw and photographed osprey (Photos 3 and 4) and double-crested cormorants (Photo 5), both species of which are on California Department of Fish and Wildlife's Taxa to Watch List." (Ex. A, pp. 2-3.) He also observed "many American crows, a black-crowned night-heron and a pair of Canada geese (Photos 6-8), California scrub-jays and northern mockingbirds (Photos 9 and 10), mourning doves (Photos 11 and 12), western kingbirds (Photos 13 and 15), Anna's hummingbirds (Photo 14), California ground squirrels (Photos 16 and 17), and desert cottontails (Photo 18), among other species. Some of the species of birds were breeding on site, including California scrub-jay and killdeer (Photos 19 and 20)." (*Id.*, pp. 4-11 & Table 1.) Dr. Smallwood "detected 21 species of vertebrate wildlife at the site and another 2 species nearby, and altogether [he] detected 3 special-status species of wildlife (Table 1)." (*Id.*, pp. 4-1)

Additionally, based on database reviews and site visits, Dr. Smallwood found that 86 special-status species of wildlife are known to occur near enough to the site to warrant analysis of occurrence potential (*Id.*, p. 15; *see also id.*, pp. 17-20 (Table 2).) Of these 86 species, Dr. Smallwood confirmed 2 on site through his survey, "and another 46 (53%) have been documented within 1.5 miles of the site ('Very close'), 8 of which were recently reported, and another 13 (15%) within 1.5 and 4 miles ('Nearby'), and another 19 (22%) within 4 to 30 miles ('In region'). More than two-thirds (71%) of the species in Table 2 have been reportedly seen within 4 miles of the project site." (*Id.*) Therefore, Dr. Smallwood concludes that the project site "supports multiple special-status species of wildlife and carries the potential for supporting many more special-status species of wildlife based on proximity of recorded occurrences." (*Id.*, p. 15.)

#### A. The wildlife baseline relied upon by the MND is woefully inadequate.

Wildlife biologist Dr. Smallwood's review of the potential impacts to wildlife from the Project concluded that the Project may have significant impacts on several special-status species. An EIR is therefore required to analyze these impacts.

Dr. Smallwood reviewed the IS/MND and he Biological Resources Assessment it relies on ("BRA") and found the following issues related to the wildlife baseline that the MND and BRA relied upon:

- [The BRA] fails to report the time the survey began and how long it lasted. Without knowing the level of survey effort, the reader cannot interpret whether the survey detected the typical species or the typical number of species, or whether it detected fewer or more than the usual number of species. Without this critical information about the survey, the findings carry no comparative value. The reporting of the field survey is deficient. (Ex. A, p. 13.)
- [The BRA] reports having detected 7 species of vertebrate wildlife at the project site. This finding suggests ... [that the City's biologist] spent very little time on the site. [Dr. Smallwood] spent only 4.75 hours at the site, and detected the occurrences of 3 times the number of vertebrate wildlife species..., and...saw two more species nearby. City of Fresno needs a better accounting of how much survey effort was directed to the project site. (*Id.*, p. 14.)
- Reporting in the IS/MND is unsupportable by [the BRA] field survey. For example, the IS/MND (p. 37) states, "None of the burrows observed in the project site exhibited features typical of occupied burrowing owl burrows at the time of the survey..." However, burrowing owls typically leave little to no sign of their presence at burrows that they occupy over winter. That no sign was found has no bearing on the occurrence likelihood of burrowing owls. Furthermore, no protocol-level detection surveys have been completed for burrowing owls at this site. (Ex. A, p. 14.)
- [T]he IS/MND reports "...only limited habitat for tree, shrub and groundnesting birds exists on the project site..." In reality, the site includes expansive
  substrate for ground-nesting birds, and is surrounded by hedges of shrubs and
  trees in which birds nest. Not only is all of this nest substrate amply available,
  but it was in use by nesting birds while [Dr. Smallwood] surveyed the site
  from the site's periphery. I watched as California scrub-jays fed their begging
  fledglings right on the project site (Photo 19) and as killdeer nested on site
  (Photo 20). [He] also observed fledgling northern mockingbirds and western

Living Spaces Retail Project, Planning Commission Agenda Item VIII-A Appeals of Development Permit Application No. P22-04122 & Related Environmental Assessment No. P22-04122 October 3, 2023 Page 4 of 9

kingbirds being fed on the project site by their parents. The IS/MND is inaccurate. (Ex. A, p. 14.)

• Of the 86 special-status species of wildlife that appear in [Dr. Smallwood's] Table 2, [the BRA] addresses only 3 (4%) of them, determining only one of these 3 to have "suitable habitat" on the site.... [The BRA] refers to an Appendix D, which might have been a more expansive analysis of occurrence likelihoods of special-status species, but Appendix D is missing from the copy of [the BRA] that is circulated with the IS/MND. Of the species that are analyzed in [the BRA], Swainson's hawk is assigned marginal occurrence potential and burrowing owl is assigned low potential, but both have been reported within only 1.5 miles of the project site. [The BRA] does not provide an adequate analysis of the occurrence likelihoods of special-status species. (Ex. A, p. 15.)

In conclusion, the MND's insufficient baseline fails to adequately evaluate the significance of the impacts to special-status species of wildlife. As a result, Dr. Smallwood's expert observations are substantial evidence of a fair argument that wildlife impacts may occur as a result of the Project. Thus, the Project requires an EIR to properly mitigate wildlife impacts of the Project.

## B. The MND fails to address the Project's potential significant impact on loss of breeding capacity.

Neither the IS/MND nor the BRA assess the lost breeding capacity of birds that would result from the Project. (*See* Ex. A, pp. 16, 21.) In so doing, the IS/MND fails to analyze the impact of habitat loss, or the loss of productive capacity on bird species likely to nest on the ground and in trees within the 8-acre project site. (*Id.*) While habitat loss results in the immediate numerical decline of birds and other animals, it also results in a permanent loss of productive capacity. (*Id.*, p. 16.) Dr. Smallwood cites a recent study that documented a "29% decline in overall bird abundance across North America over the last 48 years," a decline which he says was "driven by multiple factors, but principally attributed to habitat loss and habitat fragmentation." (*Id.* (citing Rosenberg et al. 2019).)

Dr. Smallwood cites two studies that show bird nesting densities that were between 32.8 and 35.8 bird nests per acre, for an average of 34.3 bird nests per acre. (*Id.* (citing Young (1948) and Yahner (1982), respectively.) Assuming nesting density at the Project site is a fifth of the 34.3 average reported, then 6.8 bird nests per acre multiplied by the Project's 8 acres of habit, Dr. Smallwood predicts that 55 bird nests produce new birds at the site annually. (*Id.*) Based on an average of 2.9 fledglings per nest, the Project would prevent the production of 182 new birds per year. (*Id.*, p. 21 (citing Young (1948)).) The potential loss of 182 birds in California annually following construction of this Project easily qualifies as a significant and substantial impact that has not been analyzed. An EIR is required to fully analyze the Project's impact on lost breeding capacity, and to mitigate that impact.

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## C. The MND fails to address the Project's potential significant impacts on wildlife movement.

The IS/MND fails to address impacts to wildlife movement, and instead looks for impacts to a wildlife corridor. (*See* Ex. A, pp. 21-22.) Instead, the IS/MND improperly dismisses the Project's potential to significantly impact wildlife movement by reasoning that:

The project site does not possess any characteristics that would indicate a locally significant stopover point for migratory species including raptors or waterfowl. No known wildlife movement corridors occur within the project site or in the immediate vicinity. (IS/MND, p. 5.)

The project site does not contain any features that would function as wildlife movement corridors for resident or migratory wildlife species. (*Id.*, p. 39.)

However, as Dr. Smallwood points out, "[e]xactly what characteristics would indicate locally significant stopover is unidentified. Nor is it explained what qualifies as a known wildlife movement corridor." (Ex. A, p. 21.) The IS/MND also speculates, "[a]dditionally, existing chainlink fencing surrounding the project site limits the movement of wildlife species on the site." (IS/MND, p. 39.) But as Dr. Smallwood notes, "the chain-link fence incompletely surrounds the site and is broken in many places." (Ex. A, p. 21.) As a result, "wildlife movement appeared to [Dr. Smallwood] to be completely unaffected by the fence." (*Id.*)

The MND's conclusions regarding effects on wildlife movement rely on a false CEQA standard. (*Id.*) As Dr. Smallwood states, "[t]he primary phrase of the CEQA standard goes to wildlife movement regardless of whether the movement is channeled by a corridor." (*Id.*; see also CEQA Guidelines, App. G, pp. 333-34 (stating that the CEQA significance threshold is whether, among other things, a project will "[i]nterfere substantially with the movement of any native resident or migratory fish or wildlife species....").) Impacts to wildlife movement may occur with or without the presence of a wildlife corridor. (Ex. A, p. 21.) Dr. Smallwood writes:

A site such as the proposed project site is critically important for wildlife movement because it composes an increasingly diminishing area of open space within a growing expanse of anthropogenic uses, forcing more species of volant wildlife to use the site for stopover and staging during migration, dispersal, and home range patrol (Warnock 2010, Taylor et al. 2011, Runge et al. 2014). In fact, I observed wildlife using the site as part of their travel routes, including osprey, Canada goose, American crows and black-crowned night-heron.

(Ex. A, p. 21.) Hence, the Project "would cut wildlife off from one of the last remaining stopover and staging opportunities in the project area, forcing volant wildlife to travel even farther between remaining stopover sites." (*Id.*) Therefore, Dr. Smallwood concludes that "[t]his impact would be significant, and as the project is currently proposed, it would be unmitigated." (*Id.*) Because the Project would interfere with wildlife movement in the region, an EIR needs to be prepared to address the Project's impacts on wildlife movement in the region.

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#### Lastly, Dr. Smallwood notes that the BRA:

... implemented no methodology in its reconnaissance survey to determine whether or to what degree the project site might be used in support of wildlife movement in the region. There was no reported program of observation of behaviors related to movement. There was no sampling that would inform of wildlife movement at and around the project site. There was no search for sign of wildlife movement. Nothing was done that would provide information in support of the IS/MND's assertions that the project site is unimportant to wildlife movement in the region.

(Ex. A, p. 22.) Given that there is evidence that the Project could have indirect and direct impacts that may significantly affect wildlife movement, the City should prepare an EIR to address such impacts and mitigate those impacts accordingly. Dr. Smallwood recommends, at a minimum, substantial compensatory mitigation is needed in response to the Project's impacts from interference with wildlife movement, including impacts to birds and bats using the site as stop-over or staging during migration. (*Id.*, p. 27.)

## D. The MND fails to address the Project's potential significant impacts on wildlife from additional traffic generated by the Project.

Dr. Smallwood identifies the serious impacts that increased traffic has on wildlife. (Ex. A, pp. 22-24.) Analyzing the potential impact on wildlife due to vehicle collisions is especially important because "traffic impacts have taken devastating tolls on wildlife," across North America. (*Id.*, p. 22 (citing Forman et al. 2003).) In the United States alone, estimates for "avian mortality on roads is 2,200 to 8,405 deaths per 100 km per year, or 89 million to 340 million total per year." (*Id.* (citing Loss et al. 2014).) As Dr. Smallwood explains:

Vehicle collisions have accounted for the deaths of many thousands of amphibian, reptile, mammal, bird, and arthropod fauna, and the impacts have often been found to be significant at the population level (Forman et al. 2003).

(Ex. A, p. 22.) Furthermore, a recent study conducted on traffic-caused wildlife mortality found "1,275 carcasses of 49 species of mammals, birds, amphibians and reptiles over 15 months of searches" "along a 2.5 mile stretch of Vasco Road in Contra Costa County, California." (*Id.*, p. 23 (citing Mendelsohn et al. 2009).) Hence, as Dr. Smallwood points out, an analysis is needed to determine whether increased traffic generated by the Project would result in impacts to local wildlife. (*Id.*)

Based on the IS/MND's estimate that the Project will result in 667,848 annual VMT, Dr. Smallwood predicts that "project-generated traffic would cause 183 wildlife fatalities per year," which "would qualify as a substantial and highly significant project impact." (Ex. A, p. 24.) Therefore, he concludes that "[t]here is at least a fair argument that can be made for the need to prepare an EIR to analyze this impact." (*Id.*)

Additionally, Dr. Smallwood notes that "mitigation measures to improve wildlife safety along roads are available and are feasible," and therefore, "need exploration for their suitability with the proposed project." (*Id.*) Specifically, Dr. Smallwood suggests compensatory mitigation in the form of "funding research to identify fatality patterns and effective impact reduction measures such as reduced speed limits and wildlife under-crossings or overcrossings of particularly dangerous road segments," and "donations to wildlife rehabilitation facilities." (*Id.*, p. 27.)

The IS/MND fails to recognize at all this potential significant impact of the Project. Because a fair argument exists that the Project may have a significant impact on wildlife in the vicinity, an EIR must be prepared to assess this impact and identify appropriate mitigation.

## E. The MND fails to adequately address the Project's potential cumulative impacts on wildlife.

The IS/MND fails to adequately analyze the cumulative impacts to wildlife from the Project by improperly implying that cumulative impacts are in reality only residual impacts as a result of incomplete mitigation from project-level impacts. (Ex. A, p. 24.) For example, the IS/MND states that "[t]he proposed project's impacts would be individually limited and not cumulatively considerable due to the site-specific nature of the potential impacts." (IS/MND, p. 118.) However, the IS/MND's implied standard is not the standard of cumulative effects required under CEQA. (Ex. A, p. 24.) CEQA defines cumulative impacts, and it outlines two general approaches for performing the required cumulative analysis. (See 14 CCR § 15130; PRC § 21083(b)(2).)

Here, the IS/MND's cumulative "analysis" is based on flawed logic. The conclusion that the Project will have no cumulative impact because each individual impact has been reduced to a less-than-significant level relies on the exact argument CEQA's cumulative impact analysis is meant to protect against. The entire purpose of the cumulative impact analysis is to prevent the situation where mitigation occurs to address project-specific impacts, without looking at the bigger picture. This argument, applied over and over again, has resulted in major environmental damage, and is a major reason why CEQA was enacted. As the Court stated in *CBE v. CRA*:

Cumulative impact analysis is necessary because the full environmental impact of a proposed project cannot be gauged in a vacuum. One of the most important environmental lessons that has been learned is that environmental damage often occurs incrementally from a variety of small sources. These sources appear insignificant when considered individually, but assume threatening dimensions when considered collectively with other sources with which they interact.

(CBE v. CRA, 103 Cal.App.4th at 114 (citations omitted).) As such, the MND misrepresented the standard and failed to perform an appropriate analysis.

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The IS/MND further claims that the cumulative impacts to biological resources would be avoided through implementation of recommended mitigation measures. (IS/MND, p. 118.) Dr. Smallwood explains that "this claim is fallacious because mitigation measures for direct project impacts do not necessarily mitigate the sorts of incremental effects to other similar projects that CEQA is concerned about." (Ex. A, p. 24.) According to Dr. Smallwood,

An example that is highly relevant to the proposed project is the site's existing place in ongoing habitat fragmentation. Habitat fragmentation is the reduction of connectivity of remaining habitat patches on a landscape, and which can further diminish the productive capacity of wildlife in the region (Smallwood 2015). The project would further fragment habitat in an environmental setting in which the wildlife that persist are persisting on one of the very last margins of open space. The very late stage of habitat fragmentation represented at the project site warrants concern. The project's furtherance of habitat fragmentation on such a highly fragmented landscape easily qualifies as a significant cumulative impact that has not been analyzed nor mitigated in the IS/MND.

(*Id.*) Thus, an EIR must be prepared to include an adequate, serious analysis of the Project's cumulative impacts on wildlife.

## F. The pre-construction surveys identified in the MND are not sufficient to address potential impacts to birds that may be present at the site.

Dr. Smallwood has reviewed the proposed wildlife impact mitigation identified in the IS/MND related to pre-construction surveys for nesting birds and roosting bats (i.e. **Mitigation Measures BIO-1** and **BIO-2**). (*See* Ex. a, pp. 25-26.) Although Dr. Smallwood agrees with the need for pre-construction surveys for birds and bats at the Project site, he notes that pre-construction surveys will come too late either to disclose the Project's anticipated impacts or to fully mitigate impacts to birds and bats. (*Id.*) As Dr. Smallwood explains:

Preconstruction surveys are not designed to detect the target species with anywhere close to the same likelihood as are protocol-level detection surveys, and so are intended as follow-up surveys to detection surveys, the latter of which are needed to inform the CEQA impacts analysis and to identify feasible mitigation measures to reduce the project's significant impacts on this species (CDFW 2012).

Furthermore, den excavation and passive relocation of burrowing owl burrows would be inconsistent with the CDFW (2012) mitigation guidelines. In fact, CDFW (2012) warns that excavation and passive relocation can be interpreted as take.

(Ex. A, p. 25.) By failing to determine the actual baseline of bird's and bat's reliance on the site for roosting, nesting, and foraging and instead waiting within seven days prior to the start of construction to determine what roosts, nests, birds, and bats may suffer impacts from the Project,

Living Spaces Retail Project, Planning Commission Agenda Item VIII-A Appeals of Development Permit Application No. P22-04122 & Related Environmental Assessment No. P22-04122 October 3, 2023 Page 9 of 9

the IS/MND fails to evaluate and mitigate the Project's potential significant impacts to nesting birds and bats.

Dr. Smallwood recommends that detection surveys be implemented for the Project before pre-construction surveys are performed. (*Id.*, p. 26.) In addition to detection surveys and preconstruction surveys being performed, an EIR should be prepared detailing how the results of preconstruction surveys will be reported.

#### **CONCLUSION**

For the foregoing reasons, the IS/MND for the Project should be withdrawn, an EIR should be prepared, and the draft EIR should be circulated for public review and comment in accordance with CEQA. Thank you for considering these comments.

Sincerely,

Victoria Yundt

LOZEAU | DRURY LLP

Vactoria Sparat

# **EXHIBIT A**

Shawn Smallwood, PhD 3108 Finch Street Davis, CA 95616

Robert Hold, Supervising Planner County of Fresno 2220 Tulare Street, Suite A, Street Level Fresno, CA 93721

29 September 2023

RE: Living Spaces Development Permit Application No. P22-04122

Dear Mr. Holt,

I write to comment on the Initial Study/Mitigated Negative Declaration ("IS/MND") prepared for Permit Application No. P22-04122 -- a Living Spaces furniture retail building with 104,867 square-foot floor space on 8 acres at 7354 N Abby St, Fresno (APN: 303-201-27). I also removed the biological resources report (LSA 2023). The IS/MND characterizes the site of the proposed project as "vacant," but I wish to comment on the wildlife that make use of the site. My comments that follow refute the City's determination that the project would cause no significant impacts to biological resources.

My qualifications for preparing expert comments are the following. I hold a Ph.D. degree in Ecology from University of California at Davis, where I also worked as a post-graduate researcher in the Department of Agronomy and Range Sciences. My research has been on animal density and distribution, habitat selection, wildlife interactions with the anthrosphere, and conservation of rare and endangered species. I authored many papers on these and other topics. I served as Chair of the Conservation Affairs Committee for The Wildlife Society – Western Section. I am a member of The Wildlife Society and Raptor Research Foundation, and I've lectured part-time at California State University, Sacramento. I was Associate Editor of wildlife biology's premier scientific journal, The Journal of Wildlife Management, as well as of Biological Conservation, and I was on the Editorial Board of Environmental Management. I have performed wildlife surveys in California for thirty-seven years. My CV is attached.

#### SITE VISIT

I visited the site of the proposed project for 1.75 hours from 18:25 to 20:10 hours on 5 June 2023 and for 3 hours from 05:36 hours to 08:36 hours on 6 June 2023. I performed visual-scan surveys for wildlife with the use of binoculars at two locations around the periphery of the site. The sky was overcast on the 5th and partly cloudy with lightning on the 6th. There were no winds, and temperatures ranged 63° F to 85° F. The site was covered by annual grassland, and bordered on the north and south by hedges of shrubs and ornamental trees (Photos 1 and 2).

I saw and photographed osprey (Photos 3 and 4) and double-crested cormorants (Photo 5), both species of which are on California Department of Fish and Wildlife's Taxa to Watch List.





**Photos 1 and 2.** Views of the site of the proposed project 6 June 2023.



**Photos 3 and 4**. Osprey flew over the project site at 06:03 hours (left), and returned 20 minutes later with a fish (right), 6 June 2023.

Photo 5.
Double-crested
cormorants
flew over
the project
site on 6
June 2023.



I also saw many American crows, a black-crowned night-heron and a pair of Canada geese (Photos 6-8), California scrub-jays and northern mockingbirds (Photos 9 and 10), mourning doves (Photos 11 and 12), western kingbirds (Photos 13 and 15), Anna's hummingbirds (Photo 14), California ground squirrels (Photos 16 and 17), and desert cottontails (Photo 18), among other species. Some of the species of birds were breeding on site, including California scrub-jay and killdeer (Photos 19 and 20). I detected 21 species of vertebrate wildlife at the site and another 2 species nearby, and altogether I detected 3 special-status species of wildlife (Table 1).



**Photo 6**. Sixty-six American crows flew over the project site, 5 June 2023.



**Photos** 7 and 8. Black-crowned night-heron (left) and Canada goose (right) flying over the project site, 5-6 June 2023.

Photo 9 California scrub-jay on the project site, 6 June 2023.



Photo 10.
Northern
mockingbird
wing-flashing
on the project
site, 5 June
2023. Wingflashing is
performed to
startle
arthropod prey
items into
revealing
themselves.





Photos 11 and 12. Mourning doves forage on the project site, 6 June 2023.



**Photo 13**. Western kingbird hovers as a foraging strategy on the project site, 6 June 2023.



**Photos 14 and 15**. Annas's hummingbird (left) and western kingbird (right) on the project site, 6 June 2023.





**Photo 16**. California ground squirrel pups under the watchful eye of a parent (standing in grass at left) on the project site, 6 June 2023.



**Photos 17 and 18**. Ground squirrel pup (top) and desert cottontail (bottom) on the project site, 5-6 June 2023.

**Photo 19**. California scrubjay fledgling (left) begs a parent for food on the project site, 5 June 2023.





Photo 20. Killdeer on its nest on the project site, 5 June 2023.

**Table 1.** Species of wildlife I observed during 4.75 hours of survey on 5-6 June 2023.

Common name	Species name	Status <sup>1</sup>	Notes
Canada goose	Branta canadensis		Pair flew over, low
Killdeer	Charadrius vociferus		On site
Great egret	Ardea alba		Very close to site
Great blue heron	Ardea herodias		Flew over
Cattle egret	Bubulcus ibis	Range expansion	Pair flew over, low
Black-crowned night heron	Nycticorax nycticorax		Flew over
Double-crested cormorant	Nannopterum auritum	TWL	3 flew over, low
Mourning dove	Zenaida macroura		Multiple pairs
Rock pigeon	Columba livia	Non-native	
Eurasian collared-dove	Streptopelia decaocto	Non-native	
White-throated swift	Aeronautes saxatalis		Foraged over site
Anna's hummingbird	Calypte anna		Along hedges
Osprey	Pandion haliaetus	TWL, BOP	3 flyovers, 1 with fish
Northern harrier	Circus hudsonius	BCC, SSC3, BOP	Nearby
Western kingbird	Tyrannus verticalis		Pair and fledglings
European starling	Sturnus vulgaris	Non-native	
House finch	Haemorphous mexicanus		Pairs
California scrub-jay	Aphelocoma californica		Pairs and fledglings
American crow	Corvus brachyrhynchos		66 flew over in evening
Cliff swallow	Petrochelidon pyrrhonota		Foraging
Northern mockingbird	Mimus polyglottos		Pairs and fledglings
Desert cottontail	Sylvilagus audubonii		Out in evening
California ground squirrel	Otospermophilus beecheyi		Pups and adults

<sup>1</sup> Listed as BCC = U.S. Fish and Wildlife Service Bird of Conservation Concern, SSC3 = California Species of Special Concern priority level 3 (Shuford and Gardali 2008), TWL = Taxa to Watch List (Shuford and Gardali 2008), and BOP = Birds of Prey (California Fish and Game Code 3503.5).

A couple of reconnaissance surveys, such as those I completed at the project site, cannot support species' absence determinations, but they can be useful for confirming presence of species and for learning something about what wildlife are doing there. Such surveys can also be useful for estimating the number of species that were not detected, thereby revealing the degree to which the local wildlife community was sampled. One way to do this is to compare my survey outcomes relative to my survey efforts both at the project site and at a research site where I spent hundreds of hours at many survey stations to quantify the levels of sampling of the wildlife community that I could achieve from more extensive survey effort.

By use of an analytical bridge, I applied a model developed from a much larger, more robust data set at a research site to predict the number of wildlife species that would make use of the project site over the longer term. As part of my research, I completed a much larger survey effort across 167 km² of annual grasslands of the Altamont Pass Wind Resource Area, Alameda County, where from 2015 through 2019 I performed 721 1-hour visual-scan surveys, or 721 hours of surveys, at 46 stations. I used binoculars and

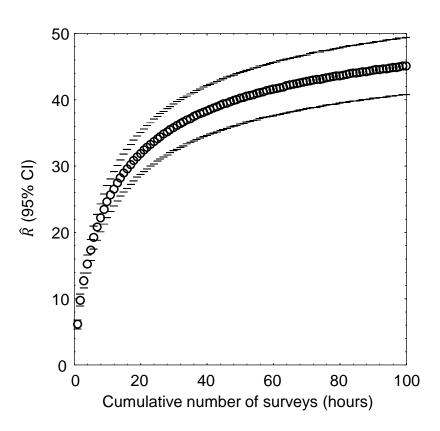
otherwise the methods were the same as the methods I used at the project site. At each of the 46 survey stations at my research site, I tallied new species detected with each sequential survey at that station, and then related the cumulative species detected to the hours (number of surveys, as each survey lasted 1 hour) used to accumulate my counts of species detected. I used combined quadratic and simplex methods of estimation in Statistica to estimate least-squares, best-fit nonlinear models of the number of cumulative species detected regressed on hours of survey (number of surveys) at the station:  $\hat{R} = \frac{1}{1/a + b \times (Hours)^c}$ , where  $\hat{R}$  represented cumulative species richness detected. The models' coefficients of determination,  $r^2$ , ranged 0.88 to 1.00, with a mean of 0.97 (95% CI: 0.96, 0.98); or in other words, the models were excellent fits to the data.

I projected the predictions of each model to thousands of hours to find predicted asymptotes of wildlife species richness. The mean model-predicted asymptote of species richness was 57 after 11,857 hours of visual-scan surveys among the 46 stations. I also averaged model predictions of species richness at each incremental increase of number of surveys, i.e., number of hours (Figure 1). On average I detected 16.8 species over the first 4.75 hours of surveys in the Altamont Pass (4.75 hours to match the number of hours I surveyed at the project site), which composed 29.47% of the total predicted species I would detect with a much larger survey effort. Given the example illustrated in Figure 1, the 21 species I detected after my 4.75 hours of survey at the project site likely represented 29.47% of the species to be detected after many more visual-scan surveys over another year or longer. With many more repeat surveys through the year, I would likely detect  $\frac{21}{0.2947} = 71$  species of vertebrate wildlife at the site. Assuming my ratio of special-status to non-special-status species was to hold through the detections of all 71 predicted species, then continued surveys would eventually detect 7 special-status species of vertebrate wildlife.

Again, however, my prediction of 71 species of vertebrate wildlife, including 7 special-status species, is derived from a visual-scan survey during the daytime, and would not detect nocturnal birds and mammals. The true number of species composing the wildlife community of the site must be larger. A couple of reconnaissance surveys should serve only as a starting point toward characterization of a site's wildlife community, but it certainly cannot alone inform of the inventory of species that use the site.

Considering the number of wildlife species known and predicted to occur at the site of the proposed project, and considering the number of special-status species known and predicted to occur at the site, a fair argument can be made for the need to prepare an EIR to appropriately characterize the wildlife community as part of the existing environmental setting.

Figure 2. Mean (95% CI) predicted wildlife species richness,  $\hat{R}$ , as a nonlinear function of hour-long survey increments across 46 visual-scan survey stations across the Altamont Pass Wind Resource Area, Alameda and Contra Costa Counties, 2015–2019.



### **EXISTING ENVIRONMENTAL SETTING**

The first step in analysis of potential project impacts to biological resources is to accurately characterize the existing environmental setting, including the biological species that use the site, their relative abundances, how they use the site, key ecological relationships, and known and ongoing threats to those species with special status. A reasonably accurate characterization of the environmental setting can provide the basis for determining whether the site holds habitat value to wildlife, as well as a baseline against which to analyze potential project impacts. For these reasons, characterization of the environmental setting, including the project's site's regional setting, is one of CEQA's essential analytical steps (§15125). Methods to achieve this first step typically include (1) surveys of the site for biological resources, and (2) reviews of literature, databases and local experts for documented occurrences of special-status species. In the case of this project, these steps remain incomplete.

# **Environmental Setting informed by Field Surveys**

LSA (2023) names a biologist who surveyed for wildlife on the project site on 19 January 2023. However, LSA (2023) fails to report the time the survey began and how long it lasted. Without knowing the level of survey effort, the reader cannot interpret whether the survey detected the typical species or the typical number of species, or whether it detected fewer or more than the usual number of species. Without this critical information about the survey, the findings carry no comparative value. The reporting of the field survey is deficient.

LSA (2023) reports having detected 7 species of vertebrate wildlife at the project site. This finding suggests to me that LSA spent very little time on the site. I spent only 4.75 hours at the site, and detected the occurrences of 3 times the number of vertebrate wildlife species as seen by LSA (2023), and I saw two more species nearby. City of Fresno needs a better accounting of how much survey effort was directed to the project site.

Reporting in the IS/MND is unsupportable by LSA's (2023) field survey. For example, the IS/MND (p. 37) states, "None of the burrows observed in the project site exhibited features typical of occupied burrowing owl burrows at the time of the survey..." However, burrowing owls typically leave little to no sign of their presence at burrows that they occupy over winter. That no sign was found has no bearing on the occurrence likelihood of burrowing owls. Furthermore, no protocol-level detection surveys have been completed for burrowing owls at this site.

In another example, the IS/MND reports "...only limited habitat for tree, shrub and ground-nesting birds exists on the project site..." In reality, the site includes expansive substrate for ground-nesting birds, and is surrounded by hedges of shrubs and trees in which birds nest. Not only is all of this nest substrate amply available, but it was in use by nesting birds while I surveyed the site from the site's periphery. I watched as California scrub-jays fed their begging fledglings right on the project site (Photo 19) and as killdeer nested on site (Photo 20). I also observed fledgling northern mockingbirds and western kingbirds being fed on the project site by their parents. The IS/MND is inaccurate.

## Environmental Setting informed by Desktop Review

The purpose of literature and database review, and of consulting with local experts, is to inform the reconnaissance-level survey, to augment it, and to help determine which protocol-level detection surveys should be implemented. Analysts need this information to identify which species are known to have occurred at or near the project site, and to identify which other special-status species could conceivably occur at the site due to geographic range overlap and site conditions. This step is important because the reconnaissance-level survey is not going to detect all of the species of wildlife that make use of the site. This step can identity those species yet to be detected at the site but which have been documented to occur nearby or whose available habitat associations are consistent with site conditions. Some special-status species can be ruled out of further analysis, but only if compelling evidence is available in support of such determinations (see below).

In this part of the review, the IS/MND is again misleading. On page 38, it reports, "no special-status species have been identified within the project site or in the vicinity of the site." This reporting is misleading because the City of Fresno has not actually looked for special-status species at the project site. No protocol-level detection surveys have been completed. And species occurrence databases need to be interpreted more carefully.

The desktop review is biased by a curtailed list of potentially occurring special-status species, which resulted from a query of occurrence records within the nearest CNDDB quadrangles. LSA (2023) and the IS/MND screen out many special-status species from further consideration in their characterization of the wildlife community as a component of the baseline environmental setting. CNDDB is not designed to support absence determinations or to screen out species from characterization of a site's wildlife community. As noted by CNDDB, "The CNDDB is a positive sighting database. It does not predict where something may be found. We map occurrences only where we have documentation that the species was found at the site. There are many areas of the state where no surveys have been conducted and therefore there is nothing on the map. That does not mean that there are no special status species present." LSA (2023) and the IS/MND misuse CNDDB.

CNDDB relies entirely on volunteer reporting from biologists who were allowed access to whatever properties they report from. Many properties have never been surveyed by biologists. Many properties have been surveyed, but the survey outcomes never reported to CNDDB. Many properties have been surveyed multiple times, but not all survey outcomes reported to CNDDB. Furthermore, CNDDB is interested only in the findings of special-status species, which means that species more recently assigned special status will have been reported many fewer times to CNDDB than were species assigned special status since the inception of CNDDB. The lack of many CNDDB records for species recently assigned special status had nothing to do with whether the species' geographic ranges overlapped the project site, but rather the brief time for records to have accumulated since the species were assigned special status. And because negative findings are not reported to CNDDB, CNDDB cannot provide the basis for estimating occurrence likelihoods, either.

In my assessment based on database reviews and site visits, 86 special-status species of wildlife are known to occur near enough to the site to warrant analysis of occurrence potential (Table 2). Of these 86 species, I confirmed 2 on site by my survey, and another 46 (53%) have been documented within 1.5 miles of the site ('Very close'), 8 of which were recently reported, and another 13 (15%) within 1.5 and 4 miles ('Nearby'), and another 19 (22%) within 4 to 30 miles ('In region'). More than two-thirds (71%) of the species in Table 2 have been reportedly seen within 4 miles of the project site. The site therefore supports multiple special-status species of wildlife and carries the potential for supporting many more special-status species of wildlife based on proximity of recorded occurrences.

Of the 86 special-status species of wildlife that appear in my Table 2, LSA (2023) addresses only 3 (4%) of them, determining only one of these 3 to have "suitable habitat" on the site (the quotes are there because suitable habitat is redundant; there is no such thing as unsuitable habitat). LSA (2023) refers to an Appendix D, which might have been a more expansive analysis of occurrence likelihoods of special-status species, but Appendix D is missing from the copy of LSA (2023) that is circulated with the IS/MND. Of the species that are analyzed in LSA (2023), Swainson's hawk is assigned marginal occurrence potential and burrowing owl is assigned low potential, but both

have been reported within only 1.5 miles of the project site. LSA (2023) does not provide an adequate analysis of the occurrence likelihoods of special-status species.

LSA (2023:7) defends its inadequate analysis with the following statement: "The evaluation of special-status animal species occurrence within the project site was based on a habitat suitability analysis. It did not include exhaustive surveys to determine their presence or absence, but did include direct observation of on-site and off-site conditions and a review of the available recorded occurrence data from the area to conclude whether or not a particular species could be expected to occur. Based on this analysis, it is unlikely that the remaining special-status wildlife species listed in Attachment D would occupy or otherwise utilize the habitat present within the project site." LSA's defense is flawed. The mere visiting of a site for a brief period and the inappropriate use of species occurrence databases cannot substitute for protocol-level detection surveys, which by the way, are not exhaustive survey efforts. LSA (2023) lacks the basis for making absence determinations or absence insinuations for special-status species of wildlife at the project site.

#### POTENTIAL BIOLOGICAL IMPACTS

An impacts analysis should consider whether and how the proposed project would affect members of a species, larger demographic units of the species, the whole of a species, and ecological communities. In the following I introduce several types of impacts likely to result from the project, and which need to be analyzed in an EIR.

#### HABITAT LOSS

The project would contribute further to habitat fragmentation, which poses serious problems to wildlife in the region. Habitat fragmentation and habitat loss have been recognized as the most likely leading causes of a documented 29% decline in overall bird abundance across North America over the last 48 years (Rosenberg et al. 2019). Habitat loss not only results in the immediate numerical decline of wildlife, but it also results in permanent loss of productive capacity. That the site is productive to birds was made obvious by the breeding behaviors exhibited by birds I saw there.

In the case of birds, two methods exist for estimating the loss of productive capacity that would be caused by the project. One method would involve surveys to count the number of bird nests and chicks produced. The alternative method is to infer productive capacity from estimates of total nest density elsewhere. Two study sites in grassland-wetland-woodland complexes had total bird nesting densities of 32.8 and 35.8 nests per acre (Young 1948, Yahner 1982) for an average 34.3 nests per acre, but the project site is in vineyard, orchard and ornamental trees of two homes. Total nesting density at the project site is probably lower than at the cited study sites. Assuming the 8-acre project site supports only a fifth of the total nesting density of the above-referenced study sites, one can predict a loss of 55 bird nests. Based on the species I saw at the site, 55 nests seems plausible to me.

**Table 2.** Occurrence likelihoods of special-status bird species at or near the proposed project site, according to eBird/iNaturalist records (<a href="https://eBird.org">https://eBird.org</a>, <a href="https://www.inaturalist.org">https://www.inaturalist.org</a>) and on-site survey findings, where 'Very close' indicates within 1.5 miles of the site, "nearby" indicates within 1.5 and 4 miles, and "in region" indicates within 4 and 30 miles, and 'in range' means

the species' geographic range overlaps the site. Entries in bold font indicate the species I detected during my surveys.

Common name	Species name	Status <sup>1</sup>	Occurrence potential (LSA 2023)	Database records, Site visits
Monarch	Danaus plexippus	FC		Nearby
Crotch's bumble bee	Bombus crotchii	CCE		Nearby
California tiger salamander	Ambystoma californiense	FT, CT, WL		Nearby
Western spadefoot	Spea hammondii	SSC		In region
Western pond turtle	Emys marmorata	SSC		Nearby
Cackling goose (Aleutian)	Branta hutchinsii leucopareia	WL		Very close
Redhead	Aythya americana	SSC2		Very close
Barrow's goldeneye	Bucephala islandica	SSC		Very close
Western grebe	Aechmophorus occidentalis	BCC		Very close
Clark's grebe	Aechmophorus clarkii	BCC		Very close
Black swift	Cypseloides niger	SSC3, BCC		In region
Vaux's swift	Chaetura vauxi	SSC2, BCC		Very close
Costa's hummingbird	Calypte costae	BCC		Nearby
Rufous hummingbird	Selasphorus rufus	BCC		Very close
Snowy plover	Charadrius nivosus	BCC		In region
Whimbrel <sup>2</sup>	Numenius phaeopus	BCC		Very close
Long-billed curlew	Numenius americanus	WL		Very close
Marbled godwit	Limosa fedoa	BCC		In region
Red knot (Pacific)	Calidris canutus	BCC		In region
Short-billed dowitcher	Limnodromus griseus	BCC		Nearby
Willet	Tringa semipalmata	BCC		In region
American avocet <sup>2</sup>	Recurvirostra americana	BCC		Very close
California gull	Larus californicus	BCC, WL		Very close
Black tern	Chlidonias niger	SSC2, BCC		In region
Common loon	Gavia immer	SSC		Very close

Common name	Species name	Status <sup>1</sup>	Occurrence potential (LSA 2023)	Database records, Site visits
Double-crested cormorant	Phalacrocorax auritus	WL	No suitable nest habitat	On site
American white pelican	Pelacanus erythrorhynchos	SSC1, BCC		Very close
White-faced ibis	Plegadis chihi	WL		Very close
Turkey vulture	Cathartes aura	BOP		Very close
Osprey	Pandion haliaetus	WL, BOP		On site
White-tailed kite	Elanus luecurus	CFP, BOP		Very close
Golden eagle	Aquila chrysaetos	BGEPA, CFP, BOP, WL		Very close
Northern harrier	Circus cyaneus	BCC, SSC3, BOP		Very close
Sharp-shinned hawk	Accipiter striatus	WL, BOP		Very close
Cooper's hawk	Accipiter cooperii	WL, BOP		Very close
Bald eagle	Haliaeetus leucocephalus	CE, BGEPA, CFP		Very close, recent
Red-shouldered hawk	Buteo lineatus	BOP		Very close
Swainson's hawk	Buteo swainsoni	CT, BOP	Marginal	Very close, recent
Red-tailed hawk	Buteo jamaicensis	BOP		Very close, recent
Ferruginous hawk	Buteo regalis	WL, BOP		Very close
Rough-legged hawk	Buteo lagopus	BOP		Nearby
Barn owl	Tyto alba	BOP		Very close
Western screech-owl	Megascops kennicotti	BOP		Nearby
Great horned owl	Bubo virginianus	BOP		Very close
Burrowing owl	Athene cunicularia	BCC, SSC2, BOP	Low	Very close
Lewis's woodpecker	Melanerpes lewis	BCC		Very close
Nuttall's woodpecker	Picoides nuttallii	BCC		Very close, recent
American kestrel	Falco sparverius	ВОР		Very close, recent
Merlin	Falco columbarius	WL, BOP		Very close
Peregrine falcon	Falco peregrinus	CFP, BOP		Very close
Prairie falcon	Falco mexicanus	WL, BOP		Very close
Olive-sided flycatcher	Contopus cooperi	BCC, SSC2		Very close
Willow flycatcher	Empidonax trailii	CE		Very close
Vermilion flycatcher	Pyrocephalus rubinus	SSC2		Very close

Common name	Species name	Status <sup>1</sup>	Occurrence potential (LSA 2023)	Database records, Site visits
Loggerhead shrike	Lanius ludovicianus	SSC2		Very close, recent
Yellow-billed magpie	Pica nuttalli	BCC		Nearby
Oak titmouse	Baeolophus inornatus	BCC		Nearby
California horned lark	Eremophila alpestris actia	WL	Suitable	Very close
Bank swallow	Riparia riparia	CT		In region
Purple martin	Progne subis	SSC2		In region
Wrentit	Chamaea fasciata	BCC		In region
California thrasher	Toxostoma redivivum	BCC		Very close
Cassin's finch	Haemorhous cassinii	BCC		Nearby
Lawrence's goldfinch	Spinus lawrencei	BCC		Very close
Grasshopper sparrow	Ammodramus savannarum	SSC2		In region
Bell's sparrow	Amphispiza b. belli	WL		In region
Oregon vesper sparrow	Pooecetes gramineus affinis	SSC2, BCC		Very close
Yellow-breasted chat	Icteria virens	SSC3		Nearby
Yellow-headed blackbird	Xanthocephalus xanthocephalus	SSC3		Very close
Bullock's oriole	Icterus bullockii	BCC		Very close, recent
Tricolored blackbird	Agelaius tricolor	CT, BCC, SSC1		Very close
Yellow warbler	Setophaga petechia	SSC2		Very close, recent
Pallid bat	Antrozous pallidus	SSC, WBWG:H		In region
Townsend's big-eared bat	Corynorhinus townsendii	SSC, WBWG:H		In region
Canyon bat	Parastrellus hesperus	WBWG:L		In region
Big brown bat	Episticus fuscus	WBWG:L		In region
Silver-haired bat	Lasionycteris noctivagans	WBWG:M		In range
Western red bat	Lasiurus blossevillii	SSC, WBWG:H		In region
Hoary bat	Lasiurus cinereus	WBWG:M		In region
Western small-footed myotis	Myotis cililabrum	WBWG:M		In range
Fringed myotis	Myotis thysanodes	WBWG:H		In range
Yuma myotis	Myotis yumanensis	WBWG:LM		In range

Common name	Species name	Status <sup>1</sup>	Occurrence potential (LSA 2023)	Database records, Site visits
California myotis	Myotis californicus	WBWG:L		In region
Fresno kangaroo rat	Dipodomys nitratoides exilis	FE, CE		In range
Tipton kangaroo rat	Dipodomys nitratoides nitratoides	FE, CE		In range
American badger	Taxidea taxus	SSC		Nearby

<sup>&</sup>lt;sup>1</sup> Listed as FT or FE = federal threatened or endangered, FC = federal candidate for listing, BCC = U.S. Fish and Wildlife Service Bird of Conservation Concern, CT or CE = California threatened or endangered, CCT or CCE = Candidate California threatened or endangered, CFP = California Fully Protected (California Fish and Game Code 3511), SSC = California Species of Special Concern (not threatened with extinction, but rare, very restricted in range, declining throughout range, peripheral portion of species' range, associated with habitat that is declining in extent), SSC1, SSC2 and SSC3 = California Bird Species of Special Concern priorities 1, 2 and 3, respectively (Shuford and Gardali 2008), WL = Taxa to Watch List (Shuford and Gardali 2008), and BOP = Birds of Prey (CFG Code 3503.5), and WBWG = Western Bat Working Group with priority rankings, of low (L), moderate (M), and high (H).

<sup>&</sup>lt;sup>2</sup> Uncertain if BCC based on 2021 Bird of Conservation Concern list.

The loss of 55 nest sites of birds would qualify as a potentially significant project impact, but the impact does not end with the immediate loss of nest sites as nest substrate is removed and foraging grounds graded in preparation for impervious surfaces. The reproductive capacity of the site would be lost. The average number of fledglings per nest in Young's (1948) study was 2.9. Assuming Young's (1948) study site typifies bird productivity, the project would prevent the production of 160 fledglings per year. Assuming an average bird generation time of 5 years, the lost capacity of both breeders and annual fledgling production can be estimated from an equation in Smallwood (2022):  $\{(nests/year \times chicks/nest \times number of years) + (2 adults/nest \times nests/year) \times (number of years ÷ years/generation)\}$  ÷  $\{(number of years) = 182 \text{ birds per year denied to California. In the face of a potential project impact of this magnitude, a fair argument can be made for the need to prepare an EIR to appropriately analyze potential project impacts to the productive capacity of birds.$ 

### WILDLIFE MOVEMENT

One of CEQA's principal concerns regarding potential project impacts is whether a proposed project would interfere with wildlife movement in the region. An analysis is required. But what is reported is a series of unfounded assertions, such as on page 5 of the IS/MND: "The project site does not possess any characteristics that would indicate a locally significant stopover point for migratory species including raptors or waterfowl. No known wildlife movement corridors occur within the project site or in the immediate vicinity." Exactly what characteristics would indicate locally significant stopover is unidentified. Nor is it explained what qualifies as a known wildlife movement corridor. And on page 39, the IS/MND asserts, "The project site does not contain any features that would function as wildlife movement corridors for resident or migratory wildlife species." Again, the IS/MND fails to reveal the nature of these features; examples would help. And on page 39, the IS/MND speculates, "Additionally, existing chain-link fencing surrounding the project site limits the movement of wildlife species on the site." However, the chain-link fence incompletely surrounds the site and is broken in many places; wildlife movement appeared to me to be completely unaffected by the fence.

Most of the IS/MND's assertions regarding potential impacts to wildlife movement were premised on whether the site is located within a wildlife movement corridor or whether it serves as part of a corridor. The IS/MND's premise for its assertions represents a false CEQA standard, and is therefore inappropriate to the analysis. The primary phrase of the CEQA standard goes to wildlife movement regardless of whether the movement is channeled by a corridor. A site such as the proposed project site is critically important for wildlife movement because it composes an increasingly diminishing area of open space within a growing expanse of anthropogenic uses, forcing more species of volant wildlife to use the site for stopover and staging during migration, dispersal, and home range patrol (Warnock 2010, Taylor et al. 2011, Runge et al. 2014). In fact, I observed wildlife using the site as part of their travel routes, including osprey, Canada goose, American crows and black-crowned night-heron. The project would cut wildlife off from one of the last remaining stopover and staging opportunities in the project area, forcing volant wildlife to travel even farther between remaining stopover sites. This impact would be significant, and as the project is currently proposed, it would be unmitigated.

Furthermore, LSA (2023) implemented no methodology in its reconnaissance survey to determine whether or to what degree the project site might be used in support of wildlife movement in the region. There was no reported program of observation of behaviors related to movement. There was no sampling that would inform of wildlife movement at and around the project site. There was no search for sign of wildlife movement. Nothing was done that would provide information in support of the IS/MND's assertions that the project site is unimportant to wildlife movement in the region.

### TRAFFIC IMPACTS TO WILDLIFE

The IS Form neglects to address one of the project's most obvious, substantial impacts to wildlife, and that is wildlife mortality and injuries caused by project-generated traffic. Project-generated traffic would endanger wildlife that must, for various reasons, cross roads used by the project's traffic (Photos 21–24), including along roads far from the project footprint. Vehicle collisions have accounted for the deaths of many thousands of amphibian, reptile, mammal, bird, and arthropod fauna, and the impacts have often been found to be significant at the population level (Forman et al. 2003). Across North America traffic impacts have taken devastating tolls on wildlife (Forman et al. 2003). In Canada, 3,562 birds were estimated killed per 100 km of road per year (Bishop and Brogan 2013), and the US estimate of avian mortality on roads is 2,200 to 8,405 deaths per 100 km per year, or 89 million to 340 million total per year (Loss et al. 2014). Local impacts can be more intense than nationally.

**Photo 21.** A Gambel's quail dashes across a road on 3 April 2021. Such road crossings are usually successful, but too often prove fatal to the animal. Photo by Noriko Smallwood.





**Photo 22.** Great-tailed grackle walks onto a rural road in Imperial County, 4 February 2022.

**Photo 23.** Mourning dove killed by vehicle on a California road. Photo by Noriko Smallwood, 21 June 2020.





**Photo 24.** Raccoon killed on Road 31 just east of Highway 505 in Solano County. Photo taken on 10 November 2018.

The nearest study of traffic-caused wildlife mortality was performed along a 2.5-mile stretch of Vasco Road in Contra Costa County, California. Fatality searches in this study found 1,275 carcasses of 49 species of mammals, birds, amphibians and reptiles over 15 months of searches (Mendelsohn et al. 2009). This fatality number needs to be adjusted for the proportion of fatalities that were not found due to scavenger removal and searcher error. This adjustment is typically made by placing carcasses for searchers to find (or not find) during their routine periodic fatality searches. This step was not taken at Vasco Road (Mendelsohn et al. 2009), but it was taken as part of another study next to Vasco Road (Brown et al. 2016). Brown et al.'s (2016) adjustment factors for carcass persistence resembled those of Santos et al. (2011). Also applying searcher detection rates from Brown et al. (2016), the adjusted total number of fatalities was estimated at 12,187 animals killed by traffic on the road. This fatality number over 1.25 years and 2.5 miles of road translates to 3,900 wild animals per mile per year. In terms comparable to the national estimates, the estimates from the Mendelsohn et al. (2009) study would translate to 243,740 animals killed per 100 km of road per year, or 29 times that of Loss et al.'s (2014) upper bound estimate and 68 times the Canadian estimate. An analysis is needed of whether increased traffic generated by the project site would similarly result in local impacts on wildlife.

For wildlife vulnerable to front-end collisions and crushing under tires, road mortality can be predicted from the study of Mendelsohn et al. (2009) as a basis, although it would be helpful to have the availability of more studies like that of Mendelsohn et al. (2009) at additional locations. My analysis of the Mendelsohn et al. (2009) data resulted in an estimated 3,900 animals killed per mile along a county road in Contra Costa County. Two percent of the estimated number of fatalities were birds, and the balance was composed of 34% mammals (many mice and pocket mice, but also ground squirrels, desert cottontails, striped skunks, American badgers, raccoons, and others), 52.3% amphibians (large numbers of California tiger salamanders and California red-

legged frogs, but also Sierran treefrogs, western toads, arboreal salamanders, slender salamanders and others), and 11.7% reptiles (many western fence lizards, but also skinks, alligator lizards, and snakes of various species). The metric, annual Vehicle Miles Traveled (VMT), is useful for predicting wildlife mortality because I was able to quantify miles traveled along the studied reach of Vasco Road during the time period of the Mendelsohn et al. (2009), hence enabling a rate of fatalities per VMT that can be projected to other sites, assuming similar collision fatality rates.

# Predicting project-generated traffic impacts to wildlife

The IS/MND predicts 667,848 annual VMT. During the Mendelsohn et al. (2009) study, 19,500 cars traveled Vasco Road daily, so the vehicle miles that contributed to my estimate of non-volant fatalities was 19,500 cars and trucks × 2.5 miles × 365 days/year × 1.25 years = 22,242,187.5 vehicle miles per 12,187 wildlife fatalities, or 1,825 vehicle miles per fatality. This rate divided into the predicted annual VMT above would predict 366 vertebrate wildlife fatalities per year. Assuming the commercial/residential landscape of the project site supports only half of the number of animals crossing roads as animals cross Vasco Road where the Mendelsohn et al. (2009) study occurred in annual grassland, the project-generated traffic would cause 183 wildlife fatalities per year, but even this number would qualify as a substantial and highly significant project impact.

There is at least a fair argument that can be made for the need to prepare an EIR to analyze this impact. Mitigation measures to improve wildlife safety along roads are available and are feasible, and they need exploration for their suitability with the proposed project.

#### **CUMULATIVE IMPACTS**

The IS'MND (page 118) claims, "The proposed project's impacts would be individually limited and not cumulatively considerable due to the site-specific nature of the potential impacts." What the IS/MND means by "site-specific nature" is unclear, but it does not comport with the definition of cumulative impacts in the CEQA Guidelines. The IS/MND further claims that cumulative impacts to biological resources would be avoided through implementation of recommended mitigation measures. But this claim is fallacious because mitigation measures for direct project impacts do not necessarily mitigate the sorts of incremental effects to other similar projects that CEQA is concerned about. An example that is highly relevant to the proposed project is the site's existing place in ongoing habitat fragmentation. Habitat fragmentation is the reduction of connectivity of remaining habitat patches on a landscape, and which can further diminish the productive capacity of wildlife in the region (Smallwood 2015). The project would further fragment habitat in an environmental setting in which the wildlife that persist are persisting on one of the very last margins of open space. The very late stage of habitat fragmentation represented at the project site warrants concern. The project's furtherance of habitat fragmentation on such a highly fragmented landscape easily qualifies as a significant cumulative impact that has not been analyzed nor mitigated in the IS/MND.

#### **MITIGATION MEASURES**

**Mitigation Measure BIO-1:** A preconstruction clearance survey shall be required for burrowing owl no more than 30 calendar days prior to initiation of project activities. ... If an active burrowing owl burrow is found within the project site, ... Specific avoidance, den excavation, passive relocation, and compensatory mitigation activities shall be performed as required by CDFW.

Whereas I concur that preconstruction, take-avoidance surveys should be completed, the IS/MND proposes preconstruction surveys where detection surveys have yet to be completed. Preconstruction surveys are not designed to detect the target species with anywhere close to the same likelihood as are protocol-level detection surveys, and so are intended as follow-up surveys to detection surveys, the latter of which are needed to inform the CEQA impacts analysis and to identify feasible mitigation measures to reduce the project's significant impacts on this species (CDFW 2012).

Furthermore, den excavation and passive relocation of burrowing owl burrows would be inconsistent with the CDFW (2012) mitigation guidelines. In fact, CDFW (2012) warns that excavation and passive relocation can be interpreted as take.

**Mitigation Measure BIO-2:** If vegetation removal, construction, or grading activities are planned to occur within the active nesting bird season (February 15 through September 15), a qualified biologist shall conduct a preconstruction nesting bird survey no more than 5 days prior to the start of such activities. ... For any active nest(s) identified, the qualified biologist shall establish an appropriate buffer zone around the active nest(s). The appropriate buffer shall be determined by the qualified biologist based on species, location, and the nature of the proposed activities.

This mitigation language allows a single individual to make a subjective decision, outside the public's view, to determine the buffer area for any given species. This measure lacks objective criteria, and is unenforceable.

The avian breeding season represented in the IS/MND is outdated. It is recognized by the California Department of Fish and Wildlife as 1 February through 15 September.

Regardless of the appropriate characterization of the avian breeding season, which in my opinion never truly starts and ends on any particular dates other than the birth and death dates of a bird,¹ this measure would not avoid impacts to sensitive avian species. It might prevent the direct destruction of the few nests found by biologists at the immediate time of the preconstruction survey, but it would not prevent the loss of avian breeding capacity and a regional decline of birds.

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<sup>&</sup>lt;sup>1</sup> No bird can successfully breed without surviving through the non-breeding seasons, nor without finding sufficient forage and finding or maintaining a reproductive partner during the non-breeding seasons. The activities of birds during the non-breeding season, and the locations of birds – the habitats they occupy – are no less critical to breeding success than the activities and locations of birds during the breeding season.

The vast majority of bird nests would not be found by biologists assigned to the survey. I have surveyed for avian nest sites many times, including an intensive survey effort that began in February 2023 and is ongoing. In the ongoing study, I have surveyed my study site 25 times, spending 4 to 5 hours at the study site each time. Even after all this effort, I have located the exact nest sites of only a small fraction of all the nest sites that I know exist based on behavior patterns. I know which pairs of birds are nesting, and I know generally where they are nesting, but not exactly where their nests are located. Of the nest sites I have found, most are cavity nests that are most effectively defended against predators. But most of the nest sites are cup nests or ground nests whose owners cannot allow to be revealed to potential predators. Based on my experience, it is highly likely that the preconstruction survey would fail to find any of the nests of ground-nesting birds that truly occur on the project site, and few of the shrub- and tree-nesting bird nests. The IS/MND's implication that preconstruction survey would avoid potential impacts to nesting birds to a less-than-significant level is unsubstantiated and unrealistic. Even assuming the biologists managed to find all of the nest sites of breeding birds, which would be highly unlikely, this measure would fail to avoid the takings of 8 acres of avian breeding habitat, thereby denying Californians another 182 birds per year (see earlier comment under Habitat Loss).

#### RECOMMENDED MEASURES

**Detection Surveys:** If the project goes forward, species detection surveys are needed to (1) support negative findings of species when appropriate, (2) inform preconstruction surveys to improve their efficacy, (3) estimate project impacts, and (4) inform compensatory mitigation and other forms of mitigation. Detection survey protocols and guidelines are available from resource agencies for most special-status species. Otherwise, professional standards can be learned from the scientific literature and species' experts. Survey protocols that need to be implemented include CDFW (2000) for Swainson's hawks. The guidelines call for multiple surveys throughout the breeding season.

**Detection Surveys for Bats:** Multiple special-status species of bats likely occur on and around the project site. A qualified bat biologist should be tasked with completing protocol-level detection surveys for bats. It needs to be learned whether bats roost in the area and whether bats forage on site.

**Preconstruction surveys:** Completion of reports of the methods and outcomes of preconstruction surveys for burrowing owls and nesting birds should be required. The reports should be made available to the public.

**Construction Monitoring:** If the project goes forward, two or more qualified biologists need to serve as construction monitors. Objective, enforceable criteria need to be specified for implementation of buffers around bird nests or dens of fossorial mammals. The events associated with construction monitoring, such as efforts to avoid impacts and findings of dead and injured wildlife, need to be summarized in a report that is subsequently made available to the public.

**Habitat Loss:** If the project goes forward, compensatory mitigation would be warranted for habitat loss. At least an equal area of land should be protected in perpetuity as close to the project site as possible, but a larger area is likely warranted to mitigate for the impacts to so many special-status species of wildlife as likely occur on the site. And additional compensatory mitigation should be linked to impacts identified in construction monitoring.

**Road Mortality:** Compensatory mitigation is needed for the increased wildlife mortality that would be caused by the project-generated road traffic in the region. I suggest that this mitigation can be directed toward funding research to identify fatality patterns and effective impact reduction measures such as reduced speed limits and wildlife under-crossings or overcrossings of particularly dangerous road segments. Compensatory mitigation can also be provided in the form of donations to wildlife rehabilitation facilities (see below).

**Fund Wildlife Rehabilitation Facilities:** Compensatory mitigation ought also to include funding contributions to wildlife rehabilitation facilities to cover the costs of injured animals that will be delivered to these facilities for care. Many animals would likely be injured by collisions with automobiles.

Thank you for your attention,

Shown Sullwood

Shawn Smallwood, Ph.D.

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# Kenneth Shawn Smallwood Curriculum Vitae

3108 Finch Street Davis, CA 95616 Phone (530) 756-4598 Cell (530) 601-6857 puma@dcn.org Born May 3, 1963 in Sacramento, California. Married, father of two.

# **Ecologist**

## **Expertise**

- Finding solutions to controversial problems related to wildlife interactions with human industry, infrastructure, and activities;
- Wildlife monitoring and field study using GPS, thermal imaging, behavior surveys;
- Using systems analysis and experimental design principles to identify meaningful ecological patterns that inform management decisions.

### **Education**

Ph.D. Ecology, University of California, Davis. September 1990. M.S. Ecology, University of California, Davis. June 1987. B.S. Anthropology, University of California, Davis. June 1985. Corcoran High School, Corcoran, California. June 1981.

## **Experience**

- 762 professional reports, including:
- 90 peer reviewed publications
- 24 in non-reviewed proceedings
- 646 reports, declarations, posters and book reviews
- 8 in mass media outlets
- 92 public presentations of research results

Editing for scientific journals: Guest Editor, *Wildlife Society Bulletin*, 2012-2013, of invited papers representing international views on the impacts of wind energy on wildlife and how to mitigate the impacts. Associate Editor, *Journal of Wildlife Management*, March 2004 to 30 June 2007. Editorial Board Member, *Environmental Management*, 10/1999 to 8/2004. Associate Editor, *Biological Conservation*, 9/1994 to 9/1995.

Member, Alameda County Scientific Review Committee (SRC), August 2006 to April 2011. The five-member committee investigated causes of bird and bat collisions in the Altamont Pass Wind Resource Area, and recommended mitigation and monitoring measures. The SRC reviewed the science underlying the Alameda County Avian Protection Program, and advised

- the County on how to reduce wildlife fatalities.
- Consulting Ecologist, 2004-2007, California Energy Commission (CEC). Provided consulting services as needed to the CEC on renewable energy impacts, monitoring and research, and produced several reports. Also collaborated with Lawrence-Livermore National Lab on research to understand and reduce wind turbine impacts on wildlife.
- Consulting Ecologist, 1999-2013, U.S. Navy. Performed endangered species surveys, hazardous waste site monitoring, and habitat restoration for the endangered San Joaquin kangaroo rat, California tiger salamander, California red-legged frog, California clapper rail, western burrowing owl, salt marsh harvest mouse, and other species at Naval Air Station Lemoore; Naval Weapons Station, Seal Beach, Detachment Concord; Naval Security Group Activity, Skaggs Island; National Radio Transmitter Facility, Dixon; and, Naval Outlying Landing Field Imperial Beach.
- Part-time Lecturer, 1998-2005, California State University, Sacramento. Instructed Mammalogy, Behavioral Ecology, and Ornithology Lab, Contemporary Environmental Issues, Natural Resources Conservation.
- Senior Ecologist, 1999-2005, BioResource Consultants. Designed and implemented research and monitoring studies related to avian fatalities at wind turbines, avian electrocutions on electric distribution poles across California, and avian fatalities at transmission lines.
- Chairman, Conservation Affairs Committee, The Wildlife Society--Western Section, 1999-2001. Prepared position statements and led efforts directed toward conservation issues, including travel to Washington, D.C. to lobby Congress for more wildlife conservation funding.
- Systems Ecologist, 1995-2000, Institute for Sustainable Development. Headed ISD's program on integrated resources management. Developed indicators of ecological integrity for large areas, using remotely sensed data, local community involvement and GIS.
- Associate, 1997-1998, Department of Agronomy and Range Science, University of California, Davis. Worked with Shu Geng and Mingua Zhang on several studies related to wildlife interactions with agriculture and patterns of fertilizer and pesticide residues in groundwater across a large landscape.
- Lead Scientist, 1996-1999, National Endangered Species Network. Informed academic scientists and environmental activists about emerging issues regarding the Endangered Species Act and other environmental laws. Testified at public hearings on endangered species issues.
- Ecologist, 1997-1998, Western Foundation of Vertebrate Zoology. Conducted field research to determine the impact of past mercury mining on the status of California red-legged frogs in Santa Clara County, California.
- Senior Systems Ecologist, 1994-1995, EIP Associates, Sacramento, California. Provided consulting services in environmental planning, and quantitative assessment of land units for their conservation and restoration opportunities basedon ecological resource requirements of 29 special-status species. Developed ecological indicators for prioritizing areas within Yolo County

to receive mitigation funds for habitat easements and restoration.

Post-Graduate Researcher, 1990-1994, Department of Agronomy and Range Science, *U.C. Davis*. Under Dr. Shu Geng's mentorship, studied landscape and management effects on temporal and spatial patterns of abundance among pocket gophers and species of Falconiformes and Carnivora in the Sacramento Valley. Managed and analyzed a data base of energy use in California agriculture. Assisted with landscape (GIS) study of groundwater contamination across Tulare County, California.

Work experience in graduate school: Co-taught Conservation Biology with Dr. Christine Schonewald, 1991 & 1993, UC Davis Graduate Group in Ecology; Reader for Dr. Richard Coss's course on Psychobiology in 1990, UC Davis Department of Psychology; Research Assistant to Dr. Walter E. Howard, 1988-1990, UC Davis Department of Wildlife and Fisheries Biology, testing durable baits for pocket gopher management in forest clearcuts; Research Assistant to Dr. Terrell P. Salmon, 1987-1988, UC Wildlife Extension, Department of Wildlife and Fisheries Biology, developing empirical models of mammal and bird invasions in North America, and a rating system for priority research and control of exotic species based on economic, environmental and human health hazards in California. Student Assistant to Dr. E. Lee Fitzhugh, 1985-1987, UC Cooperative Extension, Department of Wildlife and Fisheries Biology, developing and implementing statewide mountain lion track count for long-term monitoring.

Fulbright Research Fellow, Indonesia, 1988. Tested use of new sampling methods for numerical monitoring of Sumatran tiger and six other species of endemic felids, and evaluated methods used by other researchers.

### **Projects**

Repowering wind energy projects through careful siting of new wind turbines using map-based collision hazard models to minimize impacts to volant wildlife. Funded by wind companies (principally NextEra Renewable Energy, Inc.), California Energy Commission and East Bay Regional Park District, I have collaborated with a GIS analyst and managed a crew of five field biologists performing golden eagle behavior surveys and nocturnal surveys on bats and owls. The goal is to quantify flight patterns for development of predictive models to more carefully site new wind turbines in repowering projects. Focused behavior surveys began May 2012 and continue. Collision hazard models have been prepared for seven wind projects, three of which were built. Planning for additional repowering projects is underway.

Test avian safety of new mixer-ejector wind turbine (MEWT). Designed and implemented a beforeafter, control-impact experimental design to test the avian safety of a new, shrouded wind turbine developed by Ogin Inc. (formerly known as FloDesign Wind Turbine Corporation). Supported by a \$718,000 grant from the California Energy Commission's Public Interest Energy Research program and a 20% match share contribution from Ogin, I managed a crew of seven field biologists who performed periodic fatality searches and behavior surveys, carcass detection trials, nocturnal behavior surveys using a thermal camera, and spatial analyses with the collaboration of a GIS analyst. Field work began 1 April 2012 and ended 30 March 2015 without Ogin installing its MEWTs, but we still achieved multiple important scientific advances.

Reduce avian mortality due to wind turbines at Altamont Pass. Studied wildlife impacts caused by 5,400 wind turbines at the world's most notorious wind resource area. Studied how impacts are perceived by monitoring and how they are affected by terrain, wind patterns, food resources, range management practices, wind turbine operations, seasonal patterns, population cycles, infrastructure management such as electric distribution, animal behavior and social interactions.

<u>Reduce avian mortality on electric distribution poles</u>. Directed research toward reducing bird electrocutions on electric distribution poles, 2000-2007. Oversaw 5 founds of fatality searches at 10,000 poles from Orange County to Glenn County, California, and produced two large reports.

Cook et al. v. Rockwell International et al., No. 90-K-181 (D. Colorado). Provided expert testimony on the role of burrowing animals in affecting the fate of buried and surface-deposited radioactive and hazardous chemical wastes at the Rocky Flats Plant, Colorado. Provided expert reports based on four site visits and an extensive document review of burrowing animals. Conducted transect surveys for evidence of burrowing animals and other wildlife on and around waste facilities. Discovered substantial intrusion of waste structures by burrowing animals. I testified in federal court in November 2005, and my clients were subsequently awarded a \$553,000,000 judgment by a jury. After appeals the award was increased to two billion dollars.

<u>Hanford Nuclear Reservation Litigation</u>. Provided expert testimony on the role of burrowing animals in affecting the fate of buried radioactive wastes at the Hanford Nuclear Reservation, Washington. Provided three expert reports based on three site visits and extensive document review. Predicted and verified a certain population density of pocket gophers on buried waste structures, as well as incidence of radionuclide contamination in body tissue. Conducted transect surveys for evidence of burrowing animals and other wildlife on and around waste facilities. Discovered substantial intrusion of waste structures by burrowing animals.

Expert testimony and declarations on proposed residential and commercial developments, gas-fired power plants, wind, solar and geothermal projects, water transfers and water transfer delivery systems, endangered species recovery plans, Habitat Conservation Plans and Natural Communities Conservation Programs. Testified before multiple government agencies, Tribunals, Boards of Supervisors and City Councils, and participated with press conferences and depositions. Prepared expert witness reports and court declarations, which are summarized under Reports (below).

<u>Protocol-level surveys for special-status species</u>. Used California Department of Fish and Wildlife and US Fish and Wildlife Service protocols to search for California red-legged frog, California tiger salamander, arroyo southwestern toad, blunt-nosed leopard lizard, western pond turtle, giant kangaroo rat, San Joaquin kangaroo rat, San Joaquin kit fox, western burrowing owl, Swainson's hawk, Valley elderberry longhorn beetle and other special-status species.

<u>Conservation of San Joaquin kangaroo rat.</u> Performed research to identify factors responsible for the decline of this endangered species at Lemoore Naval Air Station, 2000-2013, and implemented habitat enhancements designed to reverse the trend and expand the population.

Impact of West Nile Virus on yellow-billed magpies. Funded by Sacramento-Yolo Mosquito and Vector Control District, 2005-2008, compared survey results pre- and post-West Nile Virus epidemic for multiple bird species in the Sacramento Valley, particularly on yellow-billed magpie and American crow due to susceptibility to WNV.

<u>Workshops on HCPs</u>. Assisted Dr. Michael Morrison with organizing and conducting a 2-day workshop on Habitat Conservation Plans, sponsored by Southern California Edison, and another 1-day workshop sponsored by PG&E. These Workshops were attended by academics, attorneys, and consultants with HCP experience. We guest-edited a Proceedings published in Environmental Management.

Mapping of biological resources along Highways 101, 46 and 41. Used GPS and GIS to delineate vegetation complexes and locations of special-status species along 26 miles of highway in San Luis Obispo County, 14 miles of highway and roadway in Monterey County, and in a large area north of Fresno, including within reclaimed gravel mining pits.

GPS mapping and monitoring at restoration sites and at Caltrans mitigation sites. Monitored the success of elderberry shrubs at one location, the success of willows at another location, and the response of wildlife to the succession of vegetation at both sites. Also used GPS to monitor the response of fossorial animals to yellow star-thistle eradication and natural grassland restoration efforts at Bear Valley in Colusa County and at the decommissioned Mather Air Force Base in Sacramento County.

Mercury effects on Red-legged Frog. Assisted Dr. Michael Morrison and US Fish and Wildlife Service in assessing the possible impacts of historical mercury mining on the federally listed California red-legged frog in Santa Clara County. Also measured habitat variables in streams.

Opposition to proposed No Surprises rule. Wrote a white paper and summary letter explaining scientific grounds for opposing the incidental take permit (ITP) rules providing ITP applicants and holders with general assurances they will be free of compliance with the Endangered Species Act once they adhere to the terms of a "properly functioning HCP." Submitted 188 signatures of scientists and environmental professionals concerned about No Surprises rule US Fish and Wildlife Service, National Marine Fisheries Service, all US Senators.

<u>Natomas Basin Habitat Conservation Plan alternative</u>. Designed narrow channel marsh to increase the likelihood of survival and recovery in the wild of giant garter snake, Swainson's hawk and Valley Elderberry Longhorn Beetle. The design included replication and interspersion of treatments for experimental testing of critical habitat elements. I provided a report to Northern Territories, Inc.

Assessments of agricultural production system and environmental technology transfer to China. Twice visited China and interviewed scientists, industrialists, agriculturalists, and the Directors of the Chinese Environmental Protection Agency and the Department of Agriculture to assess the need and possible pathways for environmental clean-up technologies and trade opportunities between the US and China.

Yolo County Habitat Conservation Plan. Conducted landscape ecology study of Yolo County to spatially prioritize allocation of mitigation efforts to improve ecosystem functionality within the County from the perspective of 29 special-status species of wildlife and plants. Used a hierarchically structured indicators approach to apply principles of landscape and ecosystem ecology, conservation biology, and local values in rating land units. Derived GIS maps to help guide the conservation area design, and then developed implementation strategies.

Mountain lion track count. Developed and conducted a carnivore monitoring program throughout California since 1985. Species counted include mountain lion, bobcat, black bear, coyote, red and gray fox, raccoon, striped skunk, badger, and black-tailed deer. Vegetation and land use are also monitored. Track survey transect was established on dusty, dirt roads within randomly selected quadrats.

<u>Sumatran tiger and other felids</u>. Upon award of Fulbright Research Fellowship, I designed and initiated track counts for seven species of wild cats in Sumatra, including Sumatran tiger, fishing cat, and golden cat. Spent four months on Sumatra and Java in 1988, and learned Bahasa Indonesia, the official Indonesian language.

Wildlife in agriculture. Beginning as post-graduate research, I studied pocket gophers and other wildlife in 40 alfalfa fields throughout the Sacramento Valley, and I surveyed for wildlife along a 200 mile road transect since 1989 with a hiatus of 1996-2004. The data are analyzed using GIS and methods from landscape ecology, and the results published and presented orally to farming groups in California and elsewhere. I also conducted the first study of wildlife in cover crops used on vineyards and orchards.

<u>Agricultural energy use and Tulare County groundwater study</u>. Developed and analyzed a data base of energy use in California agriculture, and collaborated on a landscape (GIS) study of groundwater contamination across Tulare County, California.

<u>Pocket gopher damage in forest clear-cuts</u>. Developed gopher sampling methods and tested various poison baits and baiting regimes in the largest-ever field study of pocket gopher management in forest plantations, involving 68 research plots in 55 clear-cuts among 6 National Forests in northern California.

<u>Risk assessment of exotic species in North America</u>. Developed empirical models of mammal and bird species invasions in North America, as well as a rating system for assigning priority research and control to exotic species in California, based on economic, environmental, and human health hazards.

#### **Peer Reviewed Publications**

- Smallwood, K. S. 2022. Utility-scale solar impacts to volant wildlife. Journal of Wildlife Management: e22216. <a href="https://doi.org/10.1002/jwmg.22216">https://doi.org/10.1002/jwmg.22216</a>
- Smallwood, K. S., and N. L. Smallwood. 2021. Breeding Density and Collision Mortality of Loggerhead Shrike (*Lanius ludovicianus*) in the Altamont Pass Wind Resource Area. Diversity 13, 540. https://doi.org/10.3390/d13110540.
- Smallwood, K. S. 2020. USA wind energy-caused bat fatalities increase with shorter fatality search intervals. Diversity 12(98); <a href="https://doi.org/10.3390/d12030098">https://doi.org/10.3390/d12030098</a>
- Smallwood, K. S., D. A. Bell, and S. Standish. 2020. Dogs detect larger wind energy impacts on bats and birds. Journal of Wildlife Management 84:852-864. DOI: 10.1002/jwmg.21863.
- Smallwood, K. S., and D. A. Bell. 2020. Relating bat passage rates to wind turbine fatalities.

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