

# AND USE SERVICES DEPARTMENT PLANNING COMMISSION STAFF REPORT

### HEARING DATE: December 21, 2023

### **Project Description**

APN: Applicant:	0647-051-08, 11; 0647-061-01 to 05, 08, 09, 13, 15, 16, 20, 22, 29, and 30; 0647-081-37; 0647-091-03 to 06 CDH Vidal, LLC
Community:	East desert Communities / 3 <sup>RD</sup>
	Supervisorial District
Location:	East side Hwy 95, north of the County
	Line, extending approx, 2.5 miles east
	of Hwy 95
Project No:	PRO 1-2021-00012/CUP
Starr:	JIM Morrissey
Rep:	Chambers Group
Proposal:	Conditional Use Permit a solar facility
-	with battery storage to generate up to
	160 MWh of alternating current and
	store up to 640 MWH of energy on
	approx 1 000 acros
	approx. 1,090 acres.



Hearing Notices Sent on: December 6, 2023

Report Prepared By: Jim Morrissey, Contract Planner

### SITE INFORMATION:

Parcel Size: 1.090 acres Terrain: Moderate to flat topography. Vegetation: Scattered desert vegetation.

### TABLE 1 - SITE AND SURROUNDING LAND USES AND ZONING:

AREA	EXISTING LAND USE	POLICY PLAN CATEGORY	ZONING DISTRICT
SITE	Vacant	RLM (Resource/Land Man.)	RC (Resource Conservation)
North	Vacant	RLM (Resource/Land Man.)	RC (Resource Conservation)
South	Vacant	Riverside County	Riverside County
East	Vacant	RLM (Resource/Land Man.)	RC (Resource Conservation)
West	Vacant	RLM (Resource/Land Man.)	RC (Resource Conservation)
		<u>Agency</u>	Comment

Agency	Comment
N/A	N/A
N/A	N/A
N/A	N/A
	Agency N/A N/A N/A

STAFF RECOMMENDATION: That the Planning Commission CERTIFY the Environmental Impact Report, ADOPT the recommended findings for the Environmental Impact Report and Conditional Use Permit, APPROVE the Conditional Use Permit, subject to the Conditions of Approval, and DIRECT Staff to file and post a Notice of Determination.<sup>1</sup>

<sup>1.</sup> In accordance with Section 86.08.010 of the Development Code, the Planning Commission action may be appealed to the Board of Supervisors.

### AGENDA ITEM #3

N Vicinity Map -



VICINITY MAP: General Location and Aerial view of the Project Site

### GENERAL PLAN LAND USE: RLM (Resource Land Management) ZONING: RC (Resource Conservation) AERIAL MAP:





## SITE PHOTOS

Photo One

View looking southeast from the northwest corner at Highway 95.



Photo Two

View looking northeast across property at the County Line and Hwy 95.



## Photo 3

View southerly across the Project site from a location approximately 1,600 feet north of the Project site.



### **PROJECT DESCRIPTION:**

CDH Vidal LLC (CORE) is proposing to construct and operate the Vidal Energy Project, a solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility (Project). The Project will generate 160 megawatts (MW) of alternating current (MW-AC) of solar power and include up to 640 megawatt hours (MWh) of energy storage capacity rate in a BESS on approximately 1,090 acres. The Project would be supported by the existing, adjacent Western Area Power Administration (WAPA) 161-kilovolt (kV) overhead transmission corridor. WAPA is a federal organization under the Department of Energy that markets and delivers clean, renewable, reliable, cost-based federal hydroelectric power and related services across 15 central and western states. The Project would include the construction of one on-site substation facility that would collect and convert the power generated on-site for transmission via an overhead or underground line to the WAPA transmission system and interconnection location. Upgrades associated with WAPA interconnection include replacement of existing fiber optic cable along the 52-mile Headgate Rock-Blythe 161 kV transmission line. The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, a substation, and operations and maintenance facilities.

Solar generation facilities are permitted under the Resource Land Management (RLM) and Resource Conservation (RC) Land Use Category and Land Use Zoning District with approval of a Conditional Use Permit. Existing development in the area includes rural access roads and scattered rural residences. Current land uses within the Project Site include scattered structures associated with an abandoned rural residence, garage (storage) areas, and several WAPA towers.

#### Project Design

The 1,090-acre site is comprised of 21 separate parcels, which will be merged into one parcel. The Assessor's Parcel Numbers are listed below:

0647-051-08	0647-061-09	0647-081-37
0647-051-11	0647-061-13	0647-091-03
0647-061-01	0647-061-15	0647-091-04
0647-061-02	0647-061-16	0647-091-05
0647-061-03	0647-061-20	0647-091-06
0647-061-04	0647-061-22	
0647-061-05	0647-061-29	
0647-061-08	0647-061-30	

The Project design is essentially a grid system, in which solar panels are arranged in 600-foot-wide squares with surrounding 20-foot-wide access roads. Inverter and battery stations are located throughout the various groupings. The overall grouping arrangement has attempted to avoid several existing drainage courses.

Any new roads surrounding the Project Site would be a minimum of 20 feet wide for use by the San Bernardino County Fire Protection District and other emergency vehicles. Additional internal maintenance roads would be located throughout the Project Site. Internal access roads would be as wide as 20 feet and would be cleared and compacted for equipment and emergency vehicle travel and access to the solar panel blocks. The Project Site access roads would remain in place for ongoing activities after construction is completed and would be covered in gravel, or other approved dust control surfacing.

The Project would include a BESS with a capacity of 640 MWh. The applicant indicated the BESS system would likely consist of containers housing batteries connected in strings and mounted on racks. The containers would likely include a transformer and monitoring, lighting, and cooling equipment. However, some BESS equipment (e.g., inverters, auxiliary transformer to control the HVAC system) may be adjacent to the containers instead of within it. The Project would use as many as 47 containers, depending on container dimensions. Each container would be up to 80 feet long, 8 feet wide, and 8 feet tall.

The Project would include the construction of one substation facility in the southeastern corner of the Project Site. The substation would collect the power generated by the PV solar system blocks, transport the power via the underground/overhead power collection system, and then convert the power for transmission in WAPA's overhead 161-kV line. The substation facility would include equipment for both the Project and WAPA. Equipment at the substations would include transformers, bus work, switches, breakers, and all associated equipment required to be compliant with utility grade interconnection services. The substation facilities would house the power generation control and relaying equipment, station batteries, and Supervisory Control and Data Acquisition System and communication systems. The Project substation would be remotely operated and periodically maintained, but would not be permanently staffed. The substation site would be cleared, graded, and graveled. Construction and operations of the Project substation would affect approximately 7.5 acres. The BESS may also be co-located within or adjacent to the substation yard.

### PROJECT ANALYSIS:

<u>Site Planning</u>: As shown in the figure below, the proposed Project area has been separated into three distinct sections based upon drainage areas that flow extending from Vidal Wash to the Colorado River.



The solar arrays would be plotted in a grid system composed of 300' x 600' solar array sections, separated by 20-foot-wide roadways. Perimeter roads around each section are 26 feet wide. Inverter and battery stations are located within small groups of solar arrays. The solar units are single axis tracking arrays. An existing 161 KV transmission line, operated by WAPA, traverses the easterly section of the site.

As displayed in the Site Plan and noted in the above figure displaying drainage courses, the Project has been separated into three separate groups to avoid existing drainage courses. Based upon aerial photography, these courses have remained consistent in their location since the first aerial was taken in 1947. The proposed solar Project is an unmanned facility that does not require parking or office facilities.

<u>Code Compliance Summary</u>: The Project satisfies all applicable standards of the Development Code for development in the RC Zoning District as illustrated in Table 2 below.

Project Component	Development Code Resource Conservation		Project Plans (Proposed)	
Solar Facility	CUP		CUP	
Glare	Preclude daytime glare on any abutting residential land use zoning district, residential parcel, or public right-of-way.		<ul> <li>Project does not abut a Residential District.</li> <li>Project does not abut a residential parcel.</li> <li>Project abuts Highway 95.</li> <li>Solar panels absorb light, other buildings are scattered.</li> </ul>	
Building Setbacks	Building setback is either as listed in the zoning district (RC) or 130 percent of the mounted structure height, whichever is greater. Max. structure height in RC is 18'. Required setback distance at 130% is displayed in (23.4: Front	25' (23.4') 25' (23.4')	25' N/A	
	Interior Side Rear	15' (23.4') 15' (23.4')	26' (north/south sides) 26' (east side)	
Building Height	35' feet maximum	- \ /	18'	
Drive Aisles	24'		26'	
Night Lighting	Projects shall comply with Desert Lighting requirements Combination of motion-activated		The Project will have a combination of shielded and motion-activated lighting.	

### Table 2: PROJECT CODE COMPLIANCE

### California Environmental Quality Act Compliance

An initial administrative draft of the Environmental Impact Report (EIR) was prepared by the applicant for review and use by the County. In compliance with the California Environmental Quality Act (CEQA), the County secured the services of Kimley-Horn to independently review, evaluate and exercise judgment over the technical studies and administrative draft to complete the preparation of the material suitable for the County to issue a Draft EIR and complete the Final EIR. The Draft EIR was prepared and distributed

for the required 45-day public review period from December 9, 2022, to January 23, 2023. The document was distributed to all Responsible and Trustee Agencies and the State Clearinghouse.

A summary of significant impacts identified in the EIR and mitigation measures adopted as part of the Project's Mitigation Monitoring and Reporting Program include the following topics:

### Air Quality Measures:

1. Prior to ground disturbance activities, the Applicant must prepare a Valley Fever Management Plan, including a Valley Fever training program, to be implemented during construction to address potential risks from *Coccidioides immitis* by minimizing the potential for unsafe dust exposure during construction.

#### Biological Measures:

- 1. Use of a biological monitor to limit boundaries of disturbance.
- 2. Desert riparian vegetation shall be avoided to the extent possible.
- 3. An environmental training program shall be developed for all construction crew members.
- 4. Vegetation trimming/crushing shall take place outside the general bird breeding season, to the maximum extent possible. Bird survey would need to occur during the breeding season.
- 5. If sensitive species are found, they would be relocated out of harm's way.
- 6. A burrowing owl Take Avoidance Survey shall be conducted, and exclusionary devices installed if necessary.
- 7. Effects upon jurisdictional resources/waters would be compensated through a combination of factors, including habitat creation, enhancement, preservation, and/or restoration.
- 8. Temporary effected drainage features would be recontoured to pre-construction conditions.
- 9. A biological monitor shall be present prior to initiation of ground disturbing activities to identify limits of construction area.
- 10. Graded areas shall be stabilized to promote infiltration and reduce run-off potential.

### **Cultural Measures:**

- 1. Conduct a Worker Education Awareness Program to alert personnel to the possibility of prehistoric or historic cultural desposits.
- 2. If resources are discovered, a 60-foot buffer area shall be established, and a qualified archaeologist shall have the authority to cease construction.
- 3. A qualified archaeologist shall develop a Monitoring and Treatment Plan if significant cultural resources are discovered.

### Geologic Measures:

- 1. A registered geologist shall be retained to design facilities consistent with the geologic conditions identified at the Project site.
- 2. Areas of documented or inferred paleontological resources, the Applicant shall require consultation with a qualified paleontologist.
- 3. In the event of any fossil discovery, construction work within a 50-foot radius shall cease until significance can be determined. Significant fossils will be recovered, prepared for curation, identified, listed and deposited in a paleontological curation facility.

### Tribal Measures:

- 1. A Native American tribal monitor shall be contacted if pre-contact and/or historic-era cultural resources are discovered, in conjunction with Cultural measures described above.
- 2. A Monitoring and Treatment Plan shall be prepared, as described in the Cultural measures above.
- 3. Any and all archaeological/cultural documents created as part of the Project shall be supplied to the Applicant and County for dissemination to the applicable Indian Tribe.

### Agency/Public Comments on Draft EIR

Comments on the Draft EIR were received from the following entities:

- California Department of Fish and Wildlife (CDFW)
- Defenders of Wildlife
- Desert Tortoise Council
- Colorado River Indian Tribes (CRIT)

General responses to the comments received have been summarized below, with detailed responses included as part of the Project's Final EIR.

#### California Department of Fish and Wildlife

CDFW recommended modifications to mitigation as follows:

- BIO-3: Inserted language that training activities are to include a discussion on reduction of trash, food, and water from human sources that would attract wildlife.
- BIO-4: Inserted language expanding the time of year for the nesting bird survey; an identification of the zone of influence (100 to 300 feet); monitoring of active nests, and; stop work if an active nest is encountered.
- BIO-6: Inserted language specifying 14 days prior to disturbance to undertake burrowing owl survey and site-specific non-disturbance buffer zones are to be established based upon site monitoring and assessments of the Projects effects.
- BIO-7: Inserted language that a focused survey for desert kit fox and a Monitoring and Mitigation Plan and is to be prepared and/or undertaken prior to commencing Project activities, including assessments of all burrows, and burrows monitored.
- BIO-12: Pre-construction conditions for desert tortoise shall be undertaken no more than 30-days prior to construction activities. If tortoises are observed CDFW and USFWS are to be consulted. (This is a new measure)

The modifications requested by CDFW have been incorporated into the Final EIR. CDFW also commented on various sections of the Draft EIR related to burrowing owl evaluations, Desert Tortoise findings, and the need to file a Streambed Alteration Agreement. These comments required no significant changes or materials to the Draft EIR.

### **Defenders of Wildlife**

• Letter notes the Project is in close proximity to designated critical habitat for several species, but there is no impact identified.

**Response**: The "no impact" response was based upon a literature review within a five-mile area, a reconnaissance-level survey, and protocol surveys and potential impacts were found to be less than significant.

- Letter suggests avian mortality due to potential "lake effect".
   **Response**: Studies found that bird fatalities vary based on proximity to known aquatic habitat bird stop-over sites, such as the Salton Sea. Fatalities in non-aquatic areas have been found to be low.
- Letter states the development to solar energy projects in the County are having a significant effect upon biological resources in the region.
   **Response**: Projects are required to mitigate effects to special-status species and habitats in accordance with County, CDFW, and U.S. Fish and Wildlife Services.
- Letter requests revisions to Mitigation Measure BIO-6 and BIO-8.
   Response: Revision request for BIO-6 is similar to language requested by CDFW, but CDFW did not have any recommended changes to BIO-8.
- Letter requests an additional mitigation measure for Desert Tortoise. **Response**: Mitigation Measure BIO-12 requires a pre-construction survey for Desert Tortoise.
- Letter requests the inclusion of a Raven Management Plan.
   **Response**: Mitigation Measure BIO-12 provides that a Raven Management Plan will be undertaken if Desert Tortoise are observed within the Project site. In addition, the measure has been modified to reduce the potential for ravens to migrate to the site by reducing trash, standing water, and food from human sources.

### Desert Tortoise Council

- The Council indicated Riverside County should have been noted as an alternative location.
   Response: Feasible alternatives have been identified and discussed in the EIR. Because the applicant does not own or control land in Riverside County, this alternative was considered infeasible.
- The Council believes the Reduced Acreage Alternative should be found a viable alternative.
   **Response**: The Reduced Acreage Alternative does not meet the Project objectives. The Project objectives were established to identify Project parameters and although it may reduce potential environmental effects, it does not achieve the intended purpose, which is a utility scale solar facility. The County does provide for smaller "Community-Oriented" facilities, but this does not fit the criteria of a maximum of 10 Megawatts and 60 acres.
- The Council believes the Project should be a joint CEQA/NEPA, since the proposal would be considered a "connected action".
   **Response**: A separate NEPA analysis by WAPA has already been initiated. WAPA determined that an Environmental Assessment (EA) is appropriate action and is preparing an EA.
- The Council believes the Draft EIR does not analyze the Project's effects upon climate change, wildlife, and habitat areas.
   **Response**: The Draft EIR did analyze Greenhouse Gas Emissions that have the potential to effect global climate change and concluded the level of emissions would be less than significant.
- The Council indicated they believe the mitigation measures do not mitigate direct or cumulative impacts upon biological resources.

**Response**: The literature review that informed the Biological Resources Report and Draft EIR took into consideration the current (at the time the surveys and literature review were conducted) population status of the desert tortoise and included the most recent records of the CNDDB managed by the CDFW, the USFWS database – Carlsbad office, the National Wetlands Inventory, the U.S. Department of Agriculture Natural Resources Conservation Service Web Soil Survey, and the California Native Plant Society's Electronic Inventory of Rare and Endangered Vascular Plants of California. This material is reflected in the analysis provided in the Draft EIR. Additionally, protocol level surveys were conducted for the desert tortoise, and none were observed onsite.

### Tribal Consultation:

Letters were mailed to the Morongo Band of Mission Indians, Soboba Band of Luiseno Indians, CRIT, and Twenty-Nine Palms Band of Mission Indians requesting input on the proposed Project, consistent with the requirements of AB 52. Comments were received from the Morongo Band of Mission Indians on June 1, 2022, requesting additional documentation and consultation was concluded. Comments were also received from CRIT as part of AB 52 consultation and in response to the Draft EIR. Letters submitted by CRIT in response to consultation and comments to the Draft EIR have been requested by CRIT to be kept confidential. CRIT's comments and the County's responses to comments are included within a confidential appendix of the Final EIR circulated with County decisionmakers. As detailed in Chapter 3 of the Final EIR, consultation with CRIT was concluded on December 5, 2023. Consultation with CRIT resulted in changes of mitigation measures to require on-site monitoring and further coordination in preparation of a Monitoring and Treatment Plan.

### **RECOMMENDATION:**

That the Planning Commission:

- 1. **CERTIFY** the Environmental Impact Report (Exhibits A and B);
- 2. **ADOPT** the California Environmental Quality Act Facts and Findings and Mitigation Monitoring and Reporting Program (Exhibits C and D);
- 3. **ADOPT** the findings for approval of the Conditional Use Permit (Exhibit E);
- 4. **APPROVE** the Conditional Use Permit to construct and operate a solar photovoltaic electricity generation and battery energy storage system solar facility to generate up to 160 megawatts and store up to 640 megawatt hours of storage capacity on approximately 1,090 acres, subject to the Conditions of Approval (Exhibit F); and
- 5. **DIRECT** Land Use Services Department to file the Notice of Determination in accordance with the California Environmental Quality Act (Exhibit G).

### ATTACHMENTS:

- EXHIBIT A: Draft Environmental Impact Report
- EXHIBIT B: Final Environmental Impact Report
- EXHIBIT C: California Environmental Quality Act Facts and Findings
- EXHIBIT D: Mitigation Monitoring and Reporting Program
- EXHIBIT E: Findings
- EXHIBIT F: Conditions of Approval
- EXHIBIT G: Notice of Determination

# **EXHIBIT A**

# **Draft Environmental Impact Report**

# **VIDAL ENERGY PROJECT**

# DRAFT ENVIRONMENTAL IMPACT REPORT

SCH# 2022030713

Lead Agency:



San Bernardino County, Land Use Services Department 385 N. Arrowhead Avenue, First Floor San Bernardino, CA 92415-0187 Contact: Jim Morrissey, Planner

> Prepared by: Kimley & Horn Kimley-Horn and Associates 660 S. Figueroa Street, Suite 2050 Los Angeles, CA 90017 (213) 261-4040

> > DECEMBER 9, 2022

# **VIDAL ENERGY PROJECT**

# DRAFT ENVIRONMENTAL IMPACT REPORT

SCH# 2022030713



San Bernardino County 385 N. Arrowhead Avenue, First Floor San Bernardino, CA 92415

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DECEMBER 9, 2022

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- Appendix B: Vidal Character Photos
- Appendix C: Air Quality and Greenhouse Gas Emissions Impact Analysis
- Appendix D: Biological Resources Report
- Appendix E: Cultural Resources Survey Report
- Appendix F: Preliminary Geotechnical Engineering Report
- Appendix G: Environmental Database Report
- Appendix H: Noise Assessment
- Appendix I: Vidal Trip Generation Memorandum
- Appendix J: Tribal Cultural Resources Documentation

# **EXECUTIVE SUMMARY**

## **ES.1 INTRODUCTION**

This Draft Environmental Impact Report (Draft EIR), prepared in accordance with the California Environmental Quality Act (CEQA), Public Resources Code (PRC) Sections 21000 et. seq. This Draft EIR addresses potential environmental effects associated with the development of a 1,090-acre photovoltaic (PV) and battery energy storage system (BESS) in San Bernardino County, California. The Draft EIR provides an overview of the Project and considered alternatives, identifies the anticipated environmental impacts from the Project and the alternatives, and identifies mitigation measures designed to reduce the level of significance of any impact.

## ES.2 PURPOSE OF THE ENVIRONMENTAL IMPACT REPORT

The primary purpose of the CEQA process is to inform the public and decision makers as to the potential impacts of a project and to allow an opportunity for public input to ensure informed decision-making by the Lead Agency. CEQA requires all State and local government agencies to consider the environmental effects of projects over which they have discretionary authority. CEQA also requires each public agency to mitigate or avoid the significant environmental impacts resulting from proposed projects, when feasible, and to identify a range of feasible alternatives to the proposed project that could reduce those environmental effects.

Under CEQA, an EIR analyzes the impacts of an individual activity or specific project and focuses primarily on changes in the environment that would result from that activity or project. The Draft EIR must include the contents required by CEQA and the CEQA Guidelines and examine all phases of the Project, including planning, construction, operation, and any reasonably foreseeable future phases.

## ES.3 PROJECT DESCRIPTION

CDH Vidal LLC (CORE) plans to construct and operate an approximately 1,090-acre photovoltaic (PV) and battery energy storage system (BESS) facility to generate renewable energy in Vidal, San Bernardino County (the Project). The Project will provide 160 megawatts of alternating current (MW-AC) of renewable energy and would be supported by the existing, adjacent Western Area Power Administration (WAPA) 161 kilovolt (kV) overhead transmission corridor. The facility would include the construction of one onsite substation facility that would collect and convert the power generated onsite for transmission via an overhead or underground line to the WAPA transmission system and interconnection location. Upgrades associated with WAPA interconnection include replacement of existing fiber optic cable along the 52-mile Headgate Rock-Blythe 161 kV transmission line. The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, a Project substation, and operations and maintenance facilities.

Project construction would begin when all necessary permits are obtained, expected to be 2023. Construction is expected to be complete with 14 months. Approximately 220 workers are anticipated per day with 495 workers during peak periods. Construction workers will commute to the site, and no workers will be housed on site.

# ES.4 PROJECT OBJECTIVES

The Project has the following objectives:

- Utilize property within the County to site PV solar power-generating facilities and energy storage near existing utility infrastructure.
- Support California's efforts to reduce greenhouse gas (GHG) emissions consistent with the timeline established by the California Global Warming Solutions Act under California Assembly Bill 32, as amended by Senate Bill 32, which requires that Statewide GHG emissions are reduced to at least 40 percent below the Statewide GHG emissions limit by 2030.
- Support California's aggressive Renewables Portfolio Standard (RPS) Program consistent with the timeline established by Senate Bill 100, which requires that by December 31, 2030, 60 percent of all electricity sold in the State shall be generated from renewable energy sources.
- Develop an economically feasible and commercially financeable power-generating facility and energy storage system.
- Provide solar-generated electricity to the California Independent System Operator (CAISO) grid and WAPA.
- Promote the County's role as the state's leading producer of renewable energy.
- Provide green jobs to the County and the state of California.
- Site and design the Project in an environmentally responsible manner consistent with current County guidelines.

# ES.5 SUMMARY OF ALTERNATIVES AND ENVIRONMENTALLY SUPERIOR ALTERNATIVE

CEQA requires that an EIR describe a range of reasonable alternatives to the Proposed Project, or to the location of the Proposed Project, which could feasibly avoid or lessen any significant environmental impacts while substantially attaining the basic objectives of the project. An EIR should also evaluate the comparative merits of the alternatives.

Three alternatives are analyzed in Chapter 5, *Alternatives Analysis*, of this Draft EIR. A comparison of the Project's impacts and the No Project Alternative impacts is shown in **Table 5-3**, *Comparison of Environmental Issues*. Under the No Project Alternative, CORE would not construct a PV and BESS facility. Under the Reduced Acreage Alternative, the Project Site would be reduced by 177 acres, and the Project's renewable energy generation capacity would be reduced by approximately 25 percent due to the installation of fewer PV panels. Under the Offsite Alternative, the Offsite Alternative would be redesigned and relocated to a different 1,100 acre site which is designated as a Development Focus Area (DFA) for renewable energy in the Desert Renewable Energy Conservation Plan (DRECP).

The No Project Alternative would be considered the environmentally superior alternative, as it would avoid or reduce all of the potential impacts associated with construction and operation of the Project. However, in accordance with CEQA Guidelines Section 15126.6(e)(2), a secondary alternative must be chosen since the No Project Alternative is environmentally superior. Alternative 2, the Reduced Acreage Alternative, is conservatively considered as the environmentally superior alternative because it would

incrementally reduce certain impacts associated with the Project due to the reduced footprint (e.g., air quality, biological resources, cultural resources, and GHG emissions). However, the Project would not result in any significant and unavoidable impacts, so environmental impacts would be less than significant for all resource areas under either the Project or Alternative 2. Further, Alternative 2 would not realize certain environmental benefits and would not meet the Project objectives to the same extent as the Project. Alternative 2 would leave undeveloped underutilized land that has been planned for a solar energy facility, within an existing fenced area surrounded by similar renewable energy development. Alternative 2 would also contribute less than the Project in assisting California reach its renewable energy generation goals under SB 100. Alternative 2 would attain most of the Project Objectives, although it would not do so to the same extent as the Project.

## ES.6 TABLE OF SIGNIFICANT IMPACTS AND MITIGATION MEASURES

A summary of the potential environmental impacts of the Proposed Project is provided below for each topic addressed in this Draft EIR. **Table ES-1**, *Summary of Significant Impacts and Mitigation Measures*, summarizes the significance of the impacts of the Project based on the information and analysis in Chapter 4, Environmental Impact Analysis, of this Draft EIR.

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	Level of		Level of
Project Impacts	Significance	Mitigation	Significance
	Before	Witigation	After
	Mitigation		Mitigation
Aesthetics			
Threshold (c): Would the Project substantially degrade the existing visual character	Less than	No Mitigation Required	Less than
or quality of public views of the site and its surroundings?	Significant	No Mitigation Required.	Significant
Threshold (d): Would the Project create a new source of substantial light or glare	Less than	No Mitigation Required	Less than
which would adversely affect day or nighttime views in the area?	Significant	No Mitigation Required.	Significant
Air Quality			
Threshold (a): Would the Project conflict with or obstruct implementation of the	Less than	No Mitigation Required	Less than
applicable air quality plan?	Significant	No Mitigation Required.	Significant
Threshold (b): Would the Project result in a cumulatively considerable net increase	Less than		Less than
of any criteria pollutant for which the project region is nonattainment under an	Significant	No Mitigation Required.	Significant
applicable federal or State ambient air quality standard?	Significant		olgimicant
Threshold (c): Would the Project expose sensitive receptors to substantial pollutant	Potentially	Mitigation Measure AO-1	Less than
concentrations?	Significant	Witigation Weasure AQ 1	Significant
Biological Resources			
Threshold (a): Would the Project have a substantial adverse effect, either directly or		Mitigation Measure BIO-1	
through habitat modifications, on any species identified as a candidate, sensitive, or	Potentially	Mitigation Measure BIO-3	Less than
special status species in local or regional plans, policies, or regulations, or by the	Significant	Mitigation Measure BIO-4	Significant
California Department of Fish and Game or U.S. Fish and Wildlife Service?	0.8	Mitigation Measure BIO-6	0.8
		Mitigation Measure BIO-7	
Threshold (b): Would the Project have a substantial adverse effect on any riparian		Mitigation Measure BIO-8	
habitat or other sensitive natural community identified in local or regional plans,	Potentially	Mitigation Measure BIO-9	Less than
policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish	Significant	Mitigation Measure BIO-10	Significant
and Wildlife Service?		Mitigation Measure BIO-11	
Threshold (d): Would the Project interfere substantially with the movement of any		Mitigation Measure BIO-2	
native resident or migratory fish or wildlife species or with established native		Mitigation Measure BIO-3	
resident or migratory wildlife corridors, or impede the use of native wildlife nursery	Potentially	Mitigation Measure BIO-4	Less than
sites?	Significant	Mitigation Measure BIO-5	Significant
		Mitigation Measure BIO-6	
	<b></b>	Mitigation Measure BIO-7	
Threshold (e): Would the Project conflict with any local policies or ordinances	Potentially	Mitigation Measure BIO-1	Less than
protecting biological resources, such as a tree preservation policy or ordinance?	Significant	Mitigation Measure BIO-2	Significant

Table ES-1: Summary of Significant Impacts and Mitigation Measures

Project Impacts	Level of Significance Before	Mitigation	Level of Significance After
	Mitigation		Mitigation
		Mitigation Measure BIO-3	
		Mitigation Measure BIO-4	
		Mitigation Measure BIO-5	
		Mitigation Measure BIO-6	
		Mitigation Measure BIO-7	
Cultural Resources			
Threshold (a): Would the Project cause a substantial adverse change in the	Potentially	Mitigation Measure CUL-1	Less than
significance of a historical resource pursuant to §15064.5?	Significant	Mitigation Measure CUL-2	Significant
Threshold (b): Would the Project cause a substantial adverse change in the			
significance of an archaeological resource pursuant to §15064.5?			
Threshold (c): Would the Project disturb any human remains, including those	Less than	No Mitigation Required.	Less than
interred outside of formal cemeteries?	Significant		Significant
Geology and Soils			
Threshold (b): Would the Project result in substantial soil erosion or the loss of	Potentially	Mitigation Measure GEO-1	Less than
topsoil?	Significant		Significant
Threshold (f): Would the Project directly or indirectly destroy a unique	Potentially	Mitigation Measure GEO-2	Less than
paleontological resource or site or unique geological feature?	Significant	Mitigation Measure GEO-3	Significant
Greenhouse Gas Emissions			
Threshold (a): Would the Project generate greenhouse gas emissions, either directly	Less than	No Mitigation Required.	Less than
or indirectly, that may have a significant impact on the environment?	Significant		Significant
Threshold b): Would the Project conflict with an applicable plan, policy, or	Less than	No Mitigation Required.	Less than
regulation adopted for the purpose of reducing the emissions of greenhouse gases?	Significant		Significant
Hazards and Hazardous Materials			
Threshold (b): Would the Project create a significant hazard to the public or the	Less than	No Mitigation Required.	Less than
environment through reasonably foreseeable upset and accident conditions	Significant		Significant
involving the release of hazardous materials into the environment?			
Threshold (c): Would the Project emit hazardous emissions or handle hazardous or	Less than	No Mitigation Required.	Less than
acutely hazardous materials, substances, or waste within one-quarter mile of an	Significant		Significant
existing or proposed school?			
Threshold (f): Would the Project impair implementation of or physically interfere	Less than	No Mitigation Required.	Less than
with an adopted emergency response plan or emergency evacuation plan?	Significant		Significant

		Level of		Level of	
Project Impacts		Significance Before	Mitigation	Significance After	
		Mitigation		Mitigation	
Threshold (g): Would the Project expose people or structures, either directly or		Less than	No Mitigation Required.	Less than	
indirectly, t	to a significant risk of loss, injury or death involving wildland fires?	Significant		Significant	
Noise					
Threshold	(a): Would the Project result in generation of a substantial temporary or	Less than	No Mitigation Required.	Less than	
permanent increase in ambient noise levels in the vicinity of the project in excess of		Significant		Significant	
standards established in the local general plan or noise ordinance, or applicable					
standards o	of other agencies?				
Threshold (b): Would the Project result in generation of excessive groundborne		Less than	No Mitigation Required.	Less than	
vibration or groundborne noise levels?		Significant		Significant	
Transportation					
Threshold a): Would the Project conflict with a program, plan, ordinance or policy		Less than	No Mitigation Required.	Less than	
addressing the circulation system, including transit, roadways, bicycle and		Significant		Significant	
pedestrian facilities?					
Threshold (b): Would the Project conflict or be inconsistent with CEQA Guidelines		Less than	No Mitigation Required.	Less than	
section 15064.3, subdivision (b)?		Significant		Significant	
Tribal Cultu	ural Resources		1		
Threshold (a): Would the Project cause a substantial adverse change in the		Potentially	Mitigation Measure TCR-1	Less than	
significance of a tribal cultural resource, defined in Public Resources Code Section		Significant	Mitigation Measure TCR-2	Significant	
21074 as either a site, feature, place, cultural landscape that is geographically					
defined in terms of the size and scope of the landscape, sacred place or object with					
cultural value to a California Native American tribe, and that is:					
(i)	Listed or eligible for listing in the California Register of Historical				
	Resources, or in a local register of historical resources as define in				
6.00	Public Resources Code Section 5020.1(k), or				
(ii)	A resource determined by the lead agency, in its discretion and				
	supported by substantial evidence, to be significant pursuant to				
	criteria set forth in subdivision (c) of Public Resources Code Section				
	5024.1. In applying the criteria set forth is subdivision (c) of Public				
	Resource Code Section 5024.1, the lead agency shall consider the				
	significance of the resource to a California Native American Tribe.				

Table ES-1: Summary of Significant Impacts and Mitigation Measures

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# CHAPTER 1 – INTRODUCTION

CDH Vidal LLC (CORE) plans to construct and operate a 1,090-acre photovoltaic (PV) and battery energy storage system (BESS) facility (Project) to generate renewable energy in Vidal, San Bernardino County (County).

This chapter of the Draft Environmental Impact Report (EIR) will discuss the purpose of the Draft EIR, scope, content, and environmental review process. The Project is described in further detail in Chapter 2, *Project Description*.

# 1.1 PURPOSE OF THE ENVIRONMENTAL IMPACT REPORT

This EIR addresses the environmental effects of the proposed Project. The California Environmental Quality Act (CEQA) requires that government agencies consider the environmental consequences of projects over which they have discretionary approval authority. The County is the Lead Agency under CEQA and has determined that an EIR is required for the Project. An EIR is an informational document that provides both government decision-makers and the public with an analysis of the potential environmental consequences of a proposed project in their jurisdiction. This EIR has been prepared in accordance with the requirements of CEQA as set forth in Public Resources Code (PRC) Section 21000 et seq., and 14 California Code of Regulations (CCR) Section 15000 et seq. (CEQA Guidelines).

This EIR addresses the Project's potential environmental impacts, in accordance with CEQA Guidelines Section 15161. As referenced in CEQA Guidelines Section 15121(a), the primary purpose of an EIR is to inform decision makers and the public generally of the significant environmental effects of a project, identify possible ways to minimize the significant effects of a project, and describe reasonable alternatives to a project. This document analyzes the Project's potential environmental effects to the degree of specificity appropriate, as required by CEQA Guidelines Section 15146. The analysis considers the activities associated with the Project to determine potential short- and long-term impacts associated with Project implementation. This EIR also considers the Project's potential direct and indirect impacts, and the cumulative impacts associated with other past, present, and reasonably foreseeable future projects.

Where potentially significant impacts are identified, the EIR specifies mitigation measures that are required to be adopted as conditions of approval or may be incorporated into the Project to avoid or minimize the significance of impacts resulting from the Project. In addition, this EIR is the primary reference document in the formulation and implementation of the Project's Mitigation Monitoring and Reporting Program (MMRP).

The Final EIR will be considered for certification and approval by the County. A decision to approve the Project would be accompanied by specific, written findings, in accordance with CEQA Guidelines Section 15091, and a specific, written Statement of Overriding Considerations, in accordance with CEQA Guidelines Section 15093, if potentially significant impacts remain significant and unavoidable.

# **1.2 ENVIRONMENTAL REVIEW PROCESS**

# **1.2.1** Scoping Process

In compliance with CEQA Guidelines Section 15201, the County has taken steps to provide opportunities for public participation in the environmental process. In accordance with CEQA Guidelines Section 15082, a Notice of Preparation (NOP) was distributed to initiate the County's CEQA review process for the Project, identify and seek public input for the Project's potential environmental effects, and identify a date for the Project's public scoping meeting. The NOP was distributed on March 29, 2022 to State, regional, local government agencies, and interested parties and identified a public review period for the NOP through April 27, 2022 in compliance with the State's mandatory 30-day public review period.

A virtual scoping meeting was held to discuss the Project on April 12, 2022, from 6:00 p.m. to 8:00 p.m. via Zoom. A presentation was provided, including an overview of the Project and the CEQA process. Following the presentation, participants were encouraged to provide oral or written comments to aid the County in refining the scope of issues to be addressed in the EIR. No individuals from the public attended the scoping meeting. One comment letter was received during the public review period from the Colorado River Indian Tribes. Three comment letters were received after the public review period from the Desert Tortoise Council, Morongo Band of Mission Indians, and the California Department of Fish and Wildlife (Region 6). Key issues of environmental concern expressed by commenters include:

- Impacts to the desert tortoise
- Impacts to cultural and tribal cultural resources

The NOP, Scoping Meeting materials, and received comments are contained in Appendix A of this Draft EIR.

Topics evaluated in this Draft EIR have been identified based on the County's initial review of the Project, and responses to the NOP. The County determined that the following environmental topics are potentially significant and require an assessment in this Draft EIR:

- 1. Aesthetics
- 2. Air Quality
- 3. Biological Resources
- 4. Cultural Resources
- 5. Geology and Soils
- 6. Greenhouse Gas Emissions
- 7. Hazards and Hazardous Materials
- 8. Noise
- 9. Transportation
- 10. Tribal Cultural Resources

**Table 1-1**, *Required EIR Contents*, contains this list of sections required under CEQA Guidelines, along with reference to the chapter where these items can be found.

Chapter Title (CEQA Guidelines)	Location	
Table of Contents (Section 15122)	Table of Contents	
Summary (Section 15123)	Executive Summary	
Introduction (Section 15122)	Chapter 1	
Project Description (Section 15124)	Chapter 2	
Environmental Setting (Section 15125)	Chapter 3	
Consideration and Discussion of Environmental Impacts (Section 15126)	Chapter 4	
Mitigation Measures (Section 15126.4)	Chapter 4.1-4.10	
Cumulative Impacts (Section 15130)	Chapter 4.1-4.10	
Alternatives to the Proposed Project (Section 15126.6)	Chapter 5	
Growth-inducing Impacts (Section 15126.2)	Chapter 6	
Effects Found Not to Be Significant (Section 15128)	Chapter 6	
Organizations and Persons Consulted (Section 15129)	Chapter 8	
Acronyms/Abbreviations	Chapter 9	

### Table 1-1: Required EIR Contents

# **1.2.2** Review and Comment on the Draft Environmental Impact Report

The Draft EIR, with an accompanying Notice of Completion (NOC), is being circulated to the State Clearinghouse, trustee agencies, responsible agencies, other government agencies, and interested members of the public for a 45-day review period in accordance with CEQA Guidelines Section 15087 and 15105. The review period will begin the day the Draft EIR is released for public review and will end 45 calendar days thereafter.

During this period, interested individuals, organizations, responsible agencies, and other agencies can provide written comments about the Draft EIR addressed to:

County of San Bernardino, Land Use Services Department Attn: Jim Morrissey, Planner 385 North Arrowhead Avenue, First Floor San Bernardino, CA 92415 Email: Jim.Morrissey@lus.sbcounty.gov

Agency responses to the Draft EIR should include the name of a contact person within the commenting agency. Due to the time limits mandated by State law (CEQA Guidelines Section 15205[d]), comments must be sent to the County at the earliest possible date but not later than January 23, 2023, which is 46 days after publication of the Draft EIR.

Following the close of the public review period, a Final EIR will be prepared to respond to all substantive comments related to environmental issues. The Final EIR will be completed and made available prior to any public hearings on the Project.

## **1.3 ORGANIZATION OF THE DRAFT EIR**

The Draft EIR is organized into the following chapters so the reader can easily obtain information about the Proposed Project and related environmental issues:

**Executive Summary** – Presents a summary of the Project and alternatives, potential impacts and mitigation measures, and impact conclusions regarding growth inducement and cumulative impacts.

**Chapter 1: Introduction** – Describes the purpose and use of the Draft EIR, provides a brief overview of the Project, and outlines the organization of the Draft EIR.

**Chapter 2: Project Description** – Describes the Project location, Project details, and the County's overall objectives for the Project.

**Chapter 3: Environmental Setting** – Describes the baseline environmental setting and existing physical conditions, including related projects in the area.

**Chapter 4: Environmental Impact Analysis** – Describes the existing conditions, or setting, before Project implementation; methods and assumptions used in impact analysis; thresholds of significance; impacts that would result from the Project; and applicable mitigation measures that would eliminate or reduce significant impacts for each environmental issue.

- Section 4.1: Aesthetics
- Section 4.2: Air Quality
- Section 4.3: Biological Resources
- Section 4.4: Cultural Resources
- Section 4.5: Geology and Soils
- Section 4.6: Greenhouse Gas Emissions
- Section 4.7: Hazards and Hazardous Materials
- Section 4.8: Noise
- Section 4.9: Transportation
- Section 4.10: Tribal Cultural Resources

**Chapter 5: Alternatives Analysis** – Evaluates the environmental effects of Project alternatives, including the No Project Alternative and Environmentally Superior Project Alternative.

**Chapter 6: Other CEQA Considerations** – Includes a discussion of issues required by CEQA that are not covered in other chapters. This includes unavoidable adverse impacts, impacts found not to be significant, irreversible environmental changes, and growth-inducing impacts.

**Chapter 7: References** – Identifies the documents and individuals consulted in preparing the Draft EIR.

**Chapter 8: Report Preparation** – Lists the individuals involved in preparing the Draft EIR and organizations and persons consulted.

**Chapter 9: Acronyms/Abbreviations** – Presents a list of the acronyms and abbreviations.

**Appendices** – Present data supporting the analysis or contents of this Draft EIR. The Appendices include the following:

- **APPENDIX A:** NOP, Scoping Meeting Materials, and Comments Received on the NOP.
- **APPENDIX B:** Vidal Character Photos prepared by Chambers Group, Inc.

- **APPENDIX C:** Air Quality and Greenhouse Gas Emissions Impact Analysis, dated September 19, 2022, prepared by Vista Environmental.
- **APPENDIX D:** Biological Resources Report, dated December 2020, prepared by Chambers Group, Inc.
- **APPENDIX E:** Cultural Resources Survey Report, revised March 2022, prepared by Chambers Group, Inc.
- **APPENDIX F:** Preliminary Geotechnical Engineering Report, dated May 10, 2022, prepared by Terracon Consultants, Inc.
- **APPENDIX G:** Environmental Database Report, dated October 4, 2022.
- APPENDIX H: Noise Assessment, dated May 27, 2022, prepared by Ldn Consulting, Inc.
- **APPENDIX I:** Vidal Trip Generation Memorandum, dated April 28, 2022, prepared by Linscott, Law & Greenspan, Engineers.
- **APPENDIX J:** Tribal Cultural Resources Documentation.

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### **CHAPTER 2 – PROJECT DESCRIPTION**

### 2.1 PROJECT BACKGROUND AND PURPOSE

CDH Vidal LLC (CORE) plans to construct and operate the Vidal Energy Project (Project), a solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility to generate renewable energy in Vidal, San Bernardino County (County). The Project will provide 160 megawatts (MW) of alternating current (MW-AC) of solar power and include up to 640 megawatt hours (MWh) of energy storage capacity rate in a BESS on approximately 1,090 acres of land (Project Site). The Project would be supported by the existing, adjacent Western Area Power Administration (WAPA) 161-kilovolt (kV) overhead transmission corridor. The Project would include the construction of one on-site substation facility that would collect and convert the power generated on-site for transmission via an overhead or underground line to the WAPA transmission system and interconnection location. Upgrades associated with WAPA interconnection include replacement of existing fiber optic cable along the 52-mile Headgate Rock-Blythe 161 kV transmission line. The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, a Project substation, and operations and maintenance (O&M) facilities.

### **2.2 PROJECT LOCATION AND SITE CHARACTERISTICS**

The Project Site is located approximately 2.5 miles southeast of Vidal, which is an unincorporated area of the County that is located east of U.S. Route 95, north of the Riverside County border, and west of the Colorado River (see **Figure 2-1**, *Project Location & Vicinity*). The Project Site encompasses 1,090 acres within 21 parcels (in their entirety and portions of) that are held under lease agreement by CORE (see **Table 2-1**, *Assessor's Parcel Numbers Associated with the Project*).

APNs				
0647-051-08	0647-061-09	0647-081-37		
0647-051-11	0647-061-13	0647-091-03		
0647-061-01	0647-061-15	0647-091-04		
0647-061-02	0647-061-16	0647-091-05		
0647-061-03	0647-061-20	0647-091-06		
0647-061-04	0647-061-22			
0647-061-05	0647-061-29			
0647-061-08	0647-061-30			

#### Table 2-1: Assessor's Parcel Numbers Associated with the Project



The Project Site is located within the East Desert Communities planning area of the County. The County's Zoning Map identifies the zoning of the Project site as Resource Conservation (RC). The RC land use zoning district provides sites for recreational activities, including: Campgrounds, recreational vehicle parks, and equestrian facilities; single-family homes at a density of one per 40 acres; electric power generation facilities; transportation facilities; government offices and hospitals; and other similar and compatible uses. Renewable energy generation facilities are an allowed land use within the RC land use zoning district. The Countywide Plan designates the Project Site as Resource Land Management (RLM). In addition to the previous list, uses permitted within the RLM designation include mineral extraction, natural resource conservation areas, military facilities, lands under control of the State and federal government, and tribal entities. Solar generation facilities are allowed under the RLM/RC land use designation and zoning district with a Conditional Use Permit. Existing development in the area includes rural access roads and scattered rural residences. Current land uses within the Project Site include scattered structures associated with an abandoned rural residence, garage (storage) areas, and several WAPA towers.

#### 2.3 PROJECT FACILITIES

#### 2.3.1 Solar Generator and Power Conversion Stations (Inverters)

The Project would utilize up to 160 MW-AC PV system blocks to convert solar energy directly to electrical power for export to the electrical grid. The total BESS capacity for the PV site is 640 MWh. Solar power is generated through PV modules converting sunlight striking the modules directly to low-voltage, direct-current (DC) power, which is subsequently transformed to alternating-current (AC) power via an on-site inverter. The Project would develop modules using either fixed-tilt or tracker technology. Trackers tilt the panels to follow the course of the sun, optimizing the incident angle of sunlight on their surface. The PV panel modules are mounted on steel support posts that are pile driven into the ground. The arrays are typically placed on an aluminum rail, such that with a maximum tilt of 52 degrees, the top of the array would be a maximum of 18 feet above grade at the tallest point and approximately 2 feet above grade at the lowest point.

The PV modules are made of semiconductor material encapsulated in glass in which the PV effect converts light (photons) into electrical current. PV is best known as a method for generating electric power by using solar cells to convert energy from the sun into electricity. Energy from the sun is transmitted to the Earth as photons, which contain different levels of energy corresponding to different frequencies of the solar spectrum. When a photon is absorbed by a PV cell, the energy of the photon is transferred to an electron in an atom within the PV cell. This added energy allows the electron to escape from the atom to become part of the current in an electrical circuit.

Power conversion stations (PCS), also known as inverters, that would contain at a minimum one inverter and one transformer, would be located within the proposed solar arrays across the Project Site. Inverters are typically housed in an enclosed structure that helps to reduce the resulting operational noise levels. In addition, PCS would also be anticipated to include an exhaust fan and a heating, ventilation, and air conditioning (HVAC) system that is typically mounted to the exterior of the enclosure. Noise levels generated by PCS would be associated with operation of the inverters, transformer, exhaust fans, and HVAC systems.

#### **2.3.2** Access and Maintenance Roads

Primary access to the Project Site would be gained by exiting easterly from U.S. Route 95 directly onto a Project-controlled access road on the west side of the Project Site. While existing roads would be used to the greatest extent possible, potential new unpaved roads may need to be constructed off-site to serve as access roads from the existing road network to the Project Site. Any new road surrounding the Project Site would be a minimum of 20 feet wide for San Bernardino County Fire Department and emergency vehicles use. Additional internal maintenance roads would be located throughout the Project Site. Spacing between each row of solar panels would depend on final panel type, orientation, and County regulations. Internal access roads would be as wide as 20 feet and would be cleared and compacted for equipment and emergency vehicle travel and access to the solar blocks. These Project Site access roads would remain in place for ongoing O&M activities after construction is completed and would be covered in gravel, or other methods to provide commensurate dust control.

#### 2.3.3 Battery Storage

The Project would include a BESS with a capacity of 640 MWh. The BESS would likely consist of containers housing batteries connected in strings and mounted on racks. The container would likely include a transformer and monitoring, lighting, and cooling equipment. However, some BESS equipment (e.g., inverters, auxiliary transformer to control the HVAC system) may be adjacent to the container instead of within it. The Project would use as many as 47 containers, depending on container dimensions. Each container would be up to 80 feet long, 8 feet wide, and 8 feet tall.

There are two different locations and methods of storage proposed for BESS; these include: (1) all BESS containers consolidated within the Project substation area, or (2) BESS equipment distributed throughout the Project's solar arrays by co-locating a single BESS container with each of the Project's block inverters with the BESS and the inverter housed in or near the same container. Method 1, if fully employed, would require approximately 7.1 acres within the Project substation area to house the BESS containers. Under Method 2, the BESS containers would contain batteries only and the inverters would remain central to the solar array blocks. Batteries would be co-located with PV arrays and DC coupled and would share the PV inverters and transformers and have their own DC/DC converter that would either be on its own foundation, on the same skid as the inverters, or in the container with the batteries (depending on the design).

The Project design includes shielded and motion-activated lighting and safety features within each container. The containers are equipped with a door on each end and include fire detection and fire suppression systems. Cables and cooling pipes would pass through the container floor. The container would have unobtrusive external painting that would blend in with the natural terrain and landscape.

#### 2.3.4 **Project Substations**

The Project would include construction of one substation facility in the southeastern corner of the Project Site. The substation would collect the power generated by the PV solar system blocks, transport the power via the underground/overhead power collection system, and then convert the power for transmission in WAPA's overhead 161-kV line. The substation facility would include equipment for both the Project and WAPA.

Equipment at the substations would include transformers, bus work, switches, breakers, and all associated equipment required to be compliant with utility grade interconnection services. The substation facilities

would house the power generation control and relaying equipment, station batteries, and Supervisory Control and Data Acquisition System (SCADA) and communication systems. The Project substation would be remotely operated and periodically maintained, but would not be permanently staffed. The substation site would be cleared, graded, and graveled. A security fence would be installed around the perimeter for safety and security purposes and comprise a chain-link fence measuring as high as 6 feet, topped with as many as three strands of barbed wire, for a total maximum height of 8 feet. For safety and security purposes, this fence would not be adapted for wildlife movement. Construction and operations of the Project substation would affect approximately 7.5 acres. The BESS may also be co-located within or adjacent to the substation yard.

#### 2.4 **PROJECT CONSTRUCTION**

Project construction would last approximately 14 months and would be conducted between the hours of between 7:00 a.m. and 7:00 p.m. every day, except Sundays and Federal holidays, in accordance with County noise standards.

The various elements of the Project would be constructed concurrently on the property. Onsite workforce is expected to average 220 workers per day with a peak of up to 495 workers.

Construction activities would be expected to include site preparation, fencing, mowing, excavation, grading, trenching/underground work, pile driving, system installation, testing, and cleanup. Site preparation and Project construction would be in accordance with all federal, State, and County zoning codes and requirements. Noise-generating construction activities would be limited to the construction hours noted above. All stationary equipment and machines with the potential to generate a significant increase in noise or vibration levels would be located away from noise-sensitive receptors to the extent practicable. The contractor would conduct construction activities in such a manner that the maximum noise levels at the affected buildings would not exceed established noise levels.

#### 2.4.1 Site Grading and Earthwork

Site grading and earthwork activities are expected to include mowing, excavation, and pile driving. Grading of the Project Site would be limited to the greatest extent possible to control dust. Micro-grading would occur to maintain pile foundation tolerances and grading would be required for installation of site roads and preparation of equipment foundation pads. Solar panels are attached to driven piles and do not require foundation pads. Site preparation and construction would occur in accordance with all federal, State, and County zoning codes and requirements. Noise-generating construction activities would be limited to the construction hours noted above.

All applicable local, State, and federal requirements and best management practices (BMPs) would be incorporated into Project construction activities. The construction contractor would be required to incorporate BMPs consistent with the County zoning ordinance and with guidelines provided in the California Stormwater Quality Association's Construction Best Management Practice Handbook, including the preparation of a Stormwater Pollution Prevention Plan (SWPPP) and a Soil Erosion and Sedimentation Control Plan to reduce potential impacts related to Project construction.

#### 2.4.2 Solar Array Assembly

Erection of the solar arrays would include support structures and associated electrical equipment and cabling. During this work, there would be multiple crews working on the site with various equipment and

vehicles, including special vehicles for transporting the modules and other equipment. As the solar arrays are installed, the collection substation and switchyard facility upgrades would be constructed, as needed, and the electrical collection and communication systems would be installed. Within the solar fields, the electrical and communication wiring would be installed in underground trenches, although some of the mid-voltage collection runs and communication systems may be on overhead lines.

#### 2.4.3 Construction Water Use

During Project construction, non-potable water would be required for common construction-related purposes, including but not limited to dust suppression, soil compaction, and grading. Construction water usage is anticipated to be approximately 240 acre-feet (AF) during the construction period of 14 months. During construction, the water used is anticipated to be supplied by pumping groundwater from existing wells located within the Project site. If additional water use is required, a private water purveyor could be utilized to have water trucks delivered to the Project site.

#### 2.4.4 Solid and Nonhazardous Waste

The Project would produce a small amount of solid waste from construction activities. This may include paper, wood, glass, plastics from packing material, waste lumber, insulation, scrap metal and concrete, empty nonhazardous containers, and vegetation waste. These wastes would be segregated, where practical, for recycling. Non-recyclable wastes would be placed in covered dumpsters and removed on a regular basis by a certified waste-handling contractor for disposal at a Class III landfill. Vegetation waste generated by site clearing and grubbing would be chipped/mulched and spread on-site or hauled off-site to an appropriate green waste facility.

#### **2.4.5** Hazardous Materials

Hazardous materials used during Project construction would be typical of most construction projects of this type. Materials may include small quantities of gasoline, diesel fuel, oils, lubricants, solvents, detergents, degreasers, paints, ethylene glycol, dust palliative, herbicides, and welding materials/supplies. A hazardous materials business plan would be provided to the County Environmental Health Services Division or the San Bernardino Fire Department, which serves as the Certified Unified Program Agency (CUPA) for the County that would include a complete list of all materials used on-site and information regarding how the materials would be transported and in what form they would be used. This information would be recorded to maintain safety and prevent possible environmental contamination or worker exposure. During Project construction, material safety data sheets for all applicable materials present at the Project Site would be made readily available to on-site personnel.

#### 2.4.6 Hazardous Waste

Small quantities of hazardous waste may be generated during Project construction. These wastes may include waste paint, spent construction solvents, waste cleaners, waste oil, oily rags, waste batteries, and spent welding materials. Workers would be trained to properly identify and handle all hazardous materials. Hazardous waste would be either recycled or disposed of, as allowed by permit, at a permitted and licensed treatment and/or disposal facility.

#### 2.5 **PROJECT OPERATION AND MAINTENANCE**

Upon completion of the construction and testing phases, the Project would be operated during daylight hours. Up to 12 full-time and/or part-time staff would be required for operation, inspection, security, maintenance, and system monitoring purposes. Effective facility operations would be ensured by the following or similar activities:

- Liaison and remote monitoring;
- Administration and reporting;
- Semi-annual and annual services;
- Remote operations of inverters;
- Site security and management;
- Additional communication protocol;
- Repair and maintenance of solar facilities, substations, microwave tower, and other Project facilities; and
- Periodic (up to twice per year) panel washing.

The PV arrays would produce electricity passively with minimal maintenance requirements. It is anticipated that panels would be washed up to two times per year, using the same water source as the construction phase. Water would likely be purchased from a local supplier using groundwater wells. This groundwater is suitable as a primary supply for panel washing but may not be suitable for potable use.

The Project would be fenced in to prevent public access. Gates would be installed at the roads entering the Project site. Limiting access to the Project site would be necessary both to ensure the safety of the public and to protect the equipment form potential theft and vandalism.

#### 2.6 **PROJECT DECOMMISSIONING**

The Project has an anticipated operational life of up to 35 years, after which CORE may choose to update site technology and recommission, or decommission, the facility and remove the systems and their components. All decommissioning and restoration activities would adhere to the requirements of the appropriate governing authorities and in accordance with all applicable federal, State, and County regulations. The Project would include BMPs to ensure the collection and recycling of modules and to avoid the potential for modules to be disposed of as municipal waste.

Equipment would be de-energized prior to removal, salvaged (where possible), placed in appropriate shipping containers, and secured in a truck transport trailer for shipment off-site to be recycled or disposed of at an appropriately licensed disposal facility. Site infrastructure would be removed, including fences and concrete pads that may support the inverters, transformers, and related equipment. The exterior fencing and gates would be removed, and materials would be recycled to the extent feasible. Project roads would be restored to their pre-construction condition to the extent feasible unless the landowner elects to retain the improved roads for access throughout the property. A collection and recycling program would be utilized to promote recycling of Project components and minimize disposal in landfills.

#### 2.7 INTERCONNECTION TO WAPA

WAPA's Proposed Action consists of approving a large generator interconnection request, entering into an interconnection agreement, and implementing project-related transmission system upgrades. In order to potentially interconnect the Vidal Solar Interconnection Project, WAPA would construct a new switchyard and associated interconnection facilities adjacent to the Project and to WAPA's existing Headgate Rock-Blythe 161-kV transmission line. WAPA is also proposing to upgrade its communication equipment along the entirety of the Headgate Rock-Blythe transmission line by replacing the existing overhead grounding wire with new fiber optic grounding wire.

WAPA would build, maintain, and decommission a new switchyard and an interconnection looping in the new switchyard to the existing Headgate Rock-Blythe 161 kV transmission line. The interconnection would consist of new three-pole structures in the vicinity of existing structures, located directly adjacent to the south of the Project's proposed substation. The new three-pole structures would be up to 100 feet tall and made of galvanized steel.

Additionally, approximately 52 miles of new 48-strand overhead fiber optic grounding wire would be installed, replacing the existing static wire, on the Headgate Rock-Blythe 161 kV transmission line between the Headgate Rock and Blythe Substations, looped through the WAPA interconnection switchyard. The fiber optic wire would serve as primary and temporary secondary communication until permanent secondary communication facilities are in place, in addition to its role in shielding the energized conductors from lightning strikes. When lightning strikes, the energy from the lightning strike will travel along the overhead grounding wire to a location where the energy from the lightning strike can go to ground and safely dissipate, allowing for the transmission line conductors to remain energized.

The communication link along a transmission line is used to gather information about the system such as the status of the line's service and equipment at the stations, the amount of power being transmitted along the line, and for sending signals to operate a station's equipment remotely. Additionally, the communication link allows for voice communication between the utility's dispatch center and its workers at the station. Typically, this communication link utilizes fiber optics placed inside of the overhead grounding wire. The use of a fiber optic cable allows for near instantaneous communication between the stations. WAPA would also work with the Bureau of Land Management (BLM) in the processing of the right-of-way (ROW) application to support these connections, as needed.

#### **2.8 PROJECT OBJECTIVES**

CORE has defined the following objectives for the Project:

- Utilize property within the County to site PV solar power-generating facilities and energy storage near existing utility infrastructure.
- Support California's efforts to reduce greenhouse gas (GHG) emissions consistent with the timeline established by the California Global Warming Solutions Act under California Assembly Bill 32, as amended by Senate Bill 32, which requires that Statewide GHG emissions are reduced to at least 40 percent below the Statewide GHG emissions limit by 2030.
- Support California's aggressive Renewables Portfolio Standard (RPS) Program consistent with the timeline established by Senate Bill 100, which requires that by December 31, 2030, 60 percent of all electricity sold in the State shall be generated from renewable energy sources.

- Develop an economically feasible and commercially financeable power-generating facility and energy storage system.
- Provide solar-generated electricity to the California Independent System Operator (CAISO) grid and WAPA.
- Promote the County's role as the State's leading producer of renewable energy.
- Provide green jobs to the County and the State of California.
- Site and design the Project in an environmentally responsible manner consistent with current County guidelines.

#### 2.9 INTENDED USES OF THE EIR

This EIR is an informational document intended to inform public agency decision-makers and the public of potential environmental effects of the Project described above, identify ways to minimize potential significant effects, and describe and evaluate a reasonable range of alternatives to the Project.

The County is the Lead Agency for the Project, as it is the agency with primary authority over the Project's land use discretionary approvals. Several other agencies, identified as responsible and trustee agencies, will also use the EIR for their consideration of approvals or permits under their respective authorities.

For the purposes of CEQA, the term "trustee agency" means a State agency having jurisdiction by law over natural resources affected by a project, which are held in trust for the people of the State of California. The term "responsible agency" includes all public agencies other than a lead agency that may have discretionary approval power associated with the implementation of a proposed project or an aspect of subsequent implementation of a project. Accordingly, **Table 2-2**, *Matrix of Potential Approvals Required*, identifies a list of approvals that could be required from the Lead Agency, trustee agencies, and responsible agencies.

Permit/Action Required	Approving Agency	Lead/Trustee/Responsible Agency Designation
Environmental Impact Report	County	Lead Agency
Certification		
Condition Use Permit	County	Lead Agency
Air Quality Construction Management	Mojave Desert Air Quality	Responsible Agency
Plan	Management District	
	(MDAQMD)	
Waste Discharge Permit, if required	Lahontan Regional Water	Responsible Agency
	Quality Control Board	
	(RWQCB)	
General Construction Stormwater	Lahontan RWQCB	Responsible Agency
Permit		
Grading, Building, and Encroachment	County	Lead Agency
Permit(s)		
Streambed Alteration Agreement, if	California Department of	Responsible Agency / Trustee Agency
required	Fish and Wildlife (CDFW)	
Incidental Take Permit, if required	CDFW	Responsible Agency / Trustee Agency

#### Table 2-2: Matrix of Potential Approvals Required

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### **CHAPTER 3 – ENVIRONMENTAL SETTING**

#### 3.1 ENVIRONMENTAL SETTING OVERVIEW

CEQA Guidelines Section 15125 requires that an Environmental Impact Report (EIR) include a description of the existing environment. This chapter provides a general overview of the existing regional and local setting in which the Project Site is located and a brief description of the existing conditions at the Project Site. Detailed information on existing conditions for each environmental topic is provided in Sections 4.1 through 4.10 of this Draft EIR. This chapter also provides a list and summary of reasonably foreseeable projects in the vicinity of the Project Site that San Bernardino County (County) has determined could, in combination with the Project, potentially result in cumulative impacts. As described further below, these related projects are considered as part of the cumulative impact analyses presented in Sections 4.1 through 4.10 of this Draft EIR.

#### **3.2 EXISTING LAND USE**

The Project Site is located approximately 2.5 miles southeast of Vidal, an unincorporated area of the County that is located just east of U.S. Route 95, just north of the Riverside County border, and just west of the Colorado River (see Figure 2-1). The Project Site encompasses 1,090 acres within 21 parcels (in their entirety and portions of) that are held under lease agreement by CORE (see **Table 3-1**, *Assessor's Parcel Numbers Associated with the Project*).

APNs				
0647-051-08	0647-061-09	0647-081-37		
0647-051-11	0647-061-13	0647-091-03		
0647-061-01	0647-061-15	0647-091-04		
0647-061-02	0647-061-16	0647-091-05		
0647-061-03	0647-061-20	0647-091-06		
0647-061-04	0647-061-22			
0647-061-05	0647-061-29			
0647-061-08	0647-061-30			

#### Table 3-1: Assessor's Parcel Numbers Associated with the Project

The Project Site are mostly vacant and undeveloped, and currently contain scattered structures associated with an abandoned rural residence, garage (storage) areas, and several WAPA towers. The Project is located within the Vidal Wash and Upper Parker Valley-Colorado River watersheds. Vegetation characteristic of Vidal Wash and the major wash to the north includes Blue Palo Verde-Ironwood Woodland, with banks dominated by blue palo verde, ironwood, and creosote. Other minor drainages present in the Project Site are primarily located within Creosote Bush Scrub habitat with bank vegetation typical of this community.

The Project Site is located within the East Desert Communities planning area of the County. The County's Zoning Map identifies the zoning of the Project site as Resource Conservation.<sup>1</sup> The RC land use zoning district provides sites for recreational activities, including: Campgrounds, recreational vehicle parks, and equestrian facilities; single-family homes at a density of one per 40 acres; electric power generation

<sup>&</sup>lt;sup>1</sup> County of San Bernardino, Zoning Maps, 2006. Available at <u>https://cms.sbcounty.gov/lus/Planning/ZoningOverlayMaps/ZoningMaps.aspx#Desert</u>. Accessed on August 4, 2022.

facilities; transportation facilities; government offices and hospitals; and other similar and compatible uses. Renewable energy generation facilities are an allowed land use within the RC land use zoning district. The Countywide Plan designates the Project Site as Resource Land Management (RLM). In addition to the previous list, uses permitted within the RLM designation include mineral extraction, natural resource conservation areas, military facilities, lands under control of the State and federal government, and tribal entities. Solar generation facilities are allowed under the RLM/RC land use designation and zoning district with a Conditional Use Permit.

#### **3.2.1** Surrounding Land Uses

The Project Site is primarily surrounded by undeveloped and vacant land. Existing development in the area includes rural access roads and scattered rural residences. No established residential communities are directly adjacent to the Project Site beyond a few abandoned, dilapidated residences. The nearest residential area is located approximately 2 miles to the east, across the Colorado River in the State of Arizona. The closest off-site habitable structure is located more than 700 feet northwest of the Project Site.

The area surrounding the Project Site is within the East Desert Communities planning area of the County. The County's Zoning Map identifies the land use zoning designation of the land surrounding the Project Site as RC.<sup>2</sup>

#### **3.2.2** Adopted Plans

#### **Countywide Plan**

The County Board of Supervisors formally adopted the Countywide Plan on October 27, 2020. The Countywide Plan is a long-range policy-planning document that defines the framework by which the County's physical and economic resources are to be managed over time. The Countywide Plan offers a new set of plans and tools that go well beyond a traditional general plan for the County's unincorporated communities and complements and informs the vision for the future of the County.

The Countywide Plan is organized around two main documents: The Policy Plan and the Business Plan. The Policy Plan serves as the County's General Plan, providing a blueprint for meeting the County's longterm vision for the future, but in a much more comprehensive way. The Policy Plan recognizes and differentiates the County's dual roles of serving as a "municipal" government for County unincorporated areas and as a "regional" government delivering programs, including those mandated or funded by the State and/or the federal government, to the County as a whole. The 11 elements of the Policy Plan include:

- Land Use Element
- Housing Element
- Infrastructure & Utilities Element
- Transportation & Mobility Element
- Natural Resources Element

 <sup>&</sup>lt;sup>2</sup> County of San Bernardino, *Development Code*, 2007. Available at <u>http://www.sbcounty.gov/uploads/lus/developmentcode/dcwebsite.pdf</u>. Accessed on August 4, 2022.

- Renewable Energy and Conservation Element
- Cultural Resources Element
- Hazards Element
- Personal & Property Protection Element
- Economic Development Element
- Health & Wellness Element

The Business Plan takes an innovative, systems approach to managing the County's resources with a Governance Element and an Implementation Plan.

#### **East Desert Community Action Guide**

In 2016, the County embarked on a planning process to update the fourteen existing Community Plans and create over 30 new plans for approximately 80 unincorporated communities. In addition to updated goals and policies, the County prepared draft Community Plans containing hundreds of grass-roots tools, actions, and strategies—shaped by over two years of public outreach. Public feedback led to the renaming of the documents from "Community Plans" to "Community Action Guides", which more accurately reflects their purpose and content. The Community Action Guides also include updated information on each community's background, character, issues, values, and aspirations provided by the community.

The East Desert Communities Action Guide (EDCAG) is a framework of actions identified by the East Desert Communities with ways to implement the actions. The County released revised drafts of the EDCAG in early 2019, and the 2019 Draft is the version that was accepted by the Board of Supervisors.

#### **3.3 RELATED PROJECTS**

CEQA requires that an EIR contain an assessment of the cumulative impacts that could result from a project and other related projects. As defined in CEQA Guidelines Section 15355, "[c]umulative impacts refer to two or more individual effects which, when considered together, are considerable or which compound or increase other environmental impacts." Although project-related impacts may be individually minor, the cumulative effects of these impacts, in combination with the impacts of other projects, could be significant under CEQA and must be addressed. Through the evaluation of cumulative impacts, CEQA attempts to ensure that large-scale environmental impacts will not be ignored.

CEQA Guidelines Section 15130(b) states that the analysis of cumulative effects "need not provide as great detail as is provided for the effects attributable to the project alone," but the discussion "shall reflect the severity of the impacts and their likelihood of occurrence." Where a Lead Agency concludes that the cumulative effects of a project, taken together with the impacts of past, present, and probable future projects, are significant, the Lead Agency then must determine whether the project's incremental contribution to such significant cumulative impact is "cumulatively considerable," and thus significant in and of itself.

CEQA Guidelines Section 15130(a)(2) additionally states, "when the combined cumulative impact associated with the project's incremental effect and the effects of other projects is not significant, the EIR shall briefly indicate why the cumulative impact is not significant and is not discussed in further detail in the EIR. A Lead Agency shall identify facts and analysis supporting the Lead Agency's conclusion that the cumulative impact is less than significant."

This Draft EIR considers the effects of the Project in relation to the full development forecasted by the Countywide Plan and other related projects either proposed, approved, or under construction in the area. **Table 3-2**, *Related Projects*, provides information on the land use, location, and size of these related projects provided by the County. However, as noted in the Table 3-1 and as shown in **Figure 3-1**, *Related Projects in the Planning Area*, a majority of the related projects are located over 100 miles away and, therefore, would not contribute to a cumulatively considerable impact. Therefore, only related projects 6, 8, 9, 10 and 11 were considered throughout the cumulative impacts analysis in this Draft EIR.

#### Table 3-2: Related Projects

Number	Project Name	Description	Location	Approximate Distance from Project Site	Status
			Active Projects		
1	Sienna Solar North, South, East and West	1,630 acre 450 MW Solar Farm	Four separate sites near Comet Road, North Side; approximately 5,800' west of Comet Rd. and HWY 247 Intersection and Two separate sites near the northwest corner of Barstow Rd (SR 247) and Granite Rd	145 miles	Accepted – Working on Project Revisions
2	Camp Rock Solar Farm LLC	20 acre 4 MW Solar Farm	West side of Camp Rock Road; 650 ft. south of Bauer Road	138 miles	Under Review
3	Corral Solar	58.5 acre 5 MW Solar Farm	North of National Trails Highway, south of Atchison Topeka and Santa Fe Railroad, and west of Corral Road.	166 miles	Under Review
4	Harper Lake Solar PV	80 acre 65 MW Solar Farm	42829 Harper Lake Road	175 miles	Under Review
5	Lockhart Solar PV II	600 acre 150 MW Solar Farm	43450 Harper Lake Road	175 miles	Recommend to Board of Supervisors
6	Parker-Blythe No. 2 Transmission Line Rebuild	Electric Utility Line	Within the ROW on land controlled by BLM, CO River Indian Tribes, CA State Lands Commission, and WAPA	8 miles	Future/Pending
Approved Projects					
7	Jazmin Solar Energy	40 acre 8 MW Solar Farm	East side of Harper Lake Road, approximately 3.9 miles north of California State Route 58	174 miles	Conditionally Approved
8	Bouse-Kofa 161-kV Rebuild	Electric Utility Line	Between Bouse and Kofa Substations	10 miles	Present
9	Parker-Davis Transmission System Routine Operation and Maintenance Project and	Electric Utility Line	Parker-Davis Transmission System	34 miles	Past and Present

	Proposed Integrated Vegetation Management Program (WAPA 2015)				
10	Routine Transmission Inspections	Electric Utility Line	Parker-Davis Transmission System	N/A*	Past and Present
11	Past/Present Dispersed Recreation OHV Travel on BLM lands	Recreation	BLM lands within Project area	N/A*	Past and Present
12	Phelan Solar / (Sheep Creek Community Solar)	20 acre 3 MW Solar Farm	Southeast Corner of Sheep Creek Road and Parkdale Road	180 miles	Conditionally Approved
13	Daggett Solar- CUP7 (an expansion of Daggett Solar)	300 acre no additional wattage Solar Farm	Adjacent to Sunray Lane, South of Valley Center, North of Chloride Street, Santa Fe.	142 miles	Conditionally Approved
14	Kramer South Solar Farm - 37BF 8me, LLC	386 acre 130 MW Solar Farm	Sheep Creek Rd and SR 58	187 miles	Conditionally Approved
15	Daggett Solar Power 1 LLC	3,500 acre 650 MW Solar Farm	East of Sunray Lane, South of Valley Center, North of Chloride Street, Santa Fe.	144 miles	Conditionally Approved
16	Lockhart Solar PV I	1,073 acre 160 MW Solar Farm	43450 Harper Lake Road	175 miles	Conditionally Approved
17	Kramer North Solar Farm - 12AT 8ME, LLC	191 acre 70 MW Solar Farm	West side of Highway 395, approximately 2.5 miles north of Highway 58	187 miles	Conditionally Approved
18	Daggett Solar 33	33.9 acre 5 MW Solar Farm	On National Trails Hwy, approximately 1 west of Hidden Springs Rd in Daggett	143 miles	Conditionally Approved
19	Daggett Solar 66	133.9 acre 7 MW Solar Farm	I40 at Nebo St., northeast of Barstow/directly east of 33640 National Trails Hwy Barstow	149 miles	Conditionally Approved
20	Resurgence Solar I & II	1,172 acre 150 MW Solar Farm	Highway 395, 1 mile north of Kramer Junction	187 miles	Conditionally Approved
Notes: Related projects 10 and 11 are located throughout the area.					

The bolded related projects (6, 8, 9, 10, and 11) are considered throughout the cumulative impacts analysis in this Draft EIR.



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### CHAPTER 4 – ENVIRONMENTAL IMPACT ANALYSIS

#### 4.0.1 ENVIRONMENTAL ISSUES ADDRESSED

Based on the County's review of the Project, it has been determined that a Draft EIR is required for the Project. The purpose of this chapter of the Draft EIR is to further analyze those impacts previously determined to be potentially significant in order to inform decision-makers and the public of the type and magnitude of the changes to the existing environment that would result from the Project. The following sections provide detailed discussion of the environmental setting for each topic addressed in this Draft EIR, the analysis of the potential impacts of the Project, potential cumulative impacts, and measures to mitigate potential significant impacts to the fullest extent feasible.

Impacts found to be less than significant are further discussed in Section 6.1, *Effects Not Found to be Significant*, of Chapter 6, *Other CEQA Considerations*, of this Draft EIR.

Each potentially significant environmental issue is addressed in a separate section of the Draft EIR (Sections 4.1 through 4.10) and is generally organized into the following main subsections:

- **Existing Environmental Setting** describes the physical conditions that exist at this time and that may influence or affect the issue under investigation.
- **Regulatory Setting** describes the pertinent policy, standards, and codes that exist at this time and which may influence or affect the regulatory environment of the Project.
- **Thresholds of Significance** identifies the threshold of significance, as defined in CEQA Guidelines Section 15064.7, by which the Lead Agency will identify significant adverse environmental effects. The impact thresholds and significance criteria are based on Appendix G of the CEQA Guidelines, unless otherwise stated.
- **Methodology** provides a description of the methodology used for the analysis of the environmental issue addressed in the section.
- **Project Impact Analysis** identifies potential direct and indirect environmental effects associated with implementation of the Project.
- **Cumulative Impacts** considers the cumulative impact, as defined in CEQA Guidelines Section 15355, created as a result of the combination of the Project's impacts together with the related projects. This discussion considers whether the Project's incremental impact is cumulatively considerable.
- **Mitigation Measures** identifies proposed measures to mitigate environmental effects, where applicable.
- Level of Significance After Mitigation identifies the significance of each impact after mitigation is provided.

#### 4.0.2 TERMINOLOGY USED IN THIS ANALYSIS

For each CEQA checklist question listed in the Draft EIR, the impact is determined by applying the evaluation criteria, or threshold of significance, presented for each resource area. Terminology used throughout the Draft EIR include:

**Threshold of Significance.** A threshold of significance is a criterion applied by the Lead Agency to identify significant adverse environmental impacts. A threshold is defined by a Lead Agency based on guidance found in CEQA or the CEQA Guidelines, scientific and factual data relative to the Lead Agency jurisdiction, the policy/regulatory environment of affected jurisdictions, and other factors.

**No Impact.** A designation of no impact is given when no adverse changes in the environment are expected.

**Less Than Significant Impact.** A less than significant impact would not result in a substantial, or potentially substantial, adverse change in any of the physical conditions within the area affected by the Project, including land, air, water, minerals, flora, fauna, ambient noise, and objects of historic or aesthetic significance (see CEQA Guidelines Section 15382). Impacts determined to be less than significant do not require mitigation measures.

**Less Than Significant Impact with Mitigation.** A potentially significant (but mitigable) impact would have a substantial adverse impact on the environment, but could be reduced to a less-than-significant level with incorporation of mitigation measure(s).

**Significant and Unavoidable Impact.** A significant and unavoidable impact would cause a substantial adverse effect on the environment, and no feasible mitigation measures would be available to reduce the impact to a less-than-significant level. A project with significant and unavoidable impacts could still proceed, but the County would be required to prepare a statement of overriding considerations, pursuant to CEQA Guidelines Section 15093, explaining what factors the County considered in approving the project, notwithstanding the potential for significant environmental impacts.

#### 4.1 **AESTHETICS**

#### 4.1.1 Introduction

This section evaluates potential aesthetics and visual resource impacts that may result from construction and operation of the Project. The following discussion addresses: The existing aesthetic and visual resources of the Project Site and surrounding viewshed; evaluates Project consistency with applicable goals, policies, and regulations; identifies potential aesthetic and visual resource impacts; and recommends mitigation measures, if any, to reduce or avoid significant impacts that may result from implementation of the Project.

#### 4.1.2 Existing Environmental Setting

#### **Regional Setting**

The County of San Bernardino Countywide Plan provides policies that serve to meet the County's comprehensive long-term goals for the future. The Natural Resources Element of the Countywide Plan provides goals and guidance for the protection of natural resources including the visual resources associated with natural and open space areas. San Bernardino County (County) is the largest County in the continental United States with a land area of 20,106 square miles. The County includes three distinct geographic regions, the Mountain Region, the Valley Region, and the Desert Region. The Project Site is in the East Desert Region of the County. The East Desert Region of San Bernardino County includes a significant portion of the Mojave Desert, approximately 18,735 square miles of land. The East Desert Region of the County is situated along the easterly border of the County in the southeastern portion of the County, near the Riverside and San Bernardino County border line, north of the Interstate 10 (I-10) Freeway. The visual character of the Desert Region is defined by its arid landscape consisting of sparsely vegetated mountain ranges and broad valleys with expansive bajadas<sup>1</sup> and scattered dry lakes. The Desert Region features extensive open space and expansive vistas. The area includes undulating terrain that generally slopes towards the Colorado River.

#### Surrounding Area

The surrounding area is generally flat and defined by an arid landscape, consisting of mainly undeveloped and vacant land. Existing development in the area includes rural access roads and scattered rural residences. No established residential communities are directly adjacent to the Project Site beyond abandoned, dilapidated residences. Other than sparse vegetation, the only natural visual resources present include distant views of the mountain foothills.

#### **Project Site**

The Project Site itself is located within the Vidal Wash and Upper Parker Valley-Colorado River watersheds. Vegetation characteristic of Vidal Wash and the major wash to the north includes Blue Palo Verde-Ironwood Woodland, with banks dominated by blue palo verde, ironwood, and creosote. Other minor drainages present in the Project Site are primarily located within Creosote Bush Scrub habitat with bank vegetation typical of this plant community. Current land use within the Project Site includes scattered abandoned rural residences, garage (storage) areas, and several WAPA towers. Disturbed areas of the Project show evidence of previous agricultural use on the Project Site. These areas are mainly

<sup>&</sup>lt;sup>1</sup> A bajada is a broad slope of alluvial material at the foot of an escarpment or mountain.

concentrated along the western edge of the Project Area along U.S. Route 95 and in central portions of the Project Site immediately west and east of Citrus Ranch Road. Several small, developed areas are also present throughout the Project Site vicinity that include man-made structures, basins for wind avoidance, abandoned structures and barbed-wire fences, cattle watering holes (concrete), or paved areas. Evidence of continual site disturbance, such as off-highway vehicle (OHV) activity and illegal dumping is also present throughout the Project Area. Extensive OHV tracks traversing the Project Site can be seen on aerial imagery and were observed on the ground during the survey efforts (July 2021).

#### Scenic Vistas

Scenic vistas are typically expansive views from elevated areas. They may or may not be part of a designated scenic overlook or other area providing a static vista view of a landscape. The Project Site is located in a rural portion of the County and is not located within an area containing a scenic vista designated by the County's Countywide Plan. While there are scenic vistas in the desert regions, including views across desert landscapes, toward mountains, ridgelines, and rock formations, no designated scenic views, scenic vistas, or scenic resources are known to occur in the vicinity of the Project.<sup>2</sup>

#### Scenic Highways

The Project Site is located directly east of U.S. Route 95, a paved two-lane road and the nearest paved roadway. The Project Site is approximately 6.2 miles south of Highway 62, a County Scenic Route and Eligible State Scenic Highway.

#### Visual Concepts and Terminology

Visual or aesthetic resources are generally defined as both the natural and built features of the landscape that contribute to the public's experience and appreciation of the environment. Depending on the extent to which a project's presence would alter the perceived visual character and quality of the environment, a visual or aesthetic impact may occur. The following terms and concepts are used in the discussion below to describe and assess the aesthetic setting and impacts from the Project:

#### Vividness

Vividness refers to the visual power or memorability of landscape components as they combine in distinctive visual patterns. The Project Site is within a flat terrain and includes exposed soils that are tan in color, with similarly earth-toned low desert shrubs and grasses.

The surrounding area's desert vegetation, texture, and coloration are consistent and do not provide much of a striking visual quality when viewed for long durations. The Project area is primarily undeveloped with limited landscaping and development, including rural access roads and scattered rural residences. The Project Site includes several WAPA towers, which are relatively orderly and are aligned along other linear landscape features such as roads. The Project Site is also adjacent to regional transmission lines supported by large steel lattice towers. The scale of the WAPA electrical towers in the area make these features the most visible features throughout the landscape and reduce the overall vividness of the Project area. Based on these factors, vividness of the landscape is considered low.

<sup>&</sup>lt;sup>2</sup> County of San Bernardino, *County Plan Final EIR*, 2020. Available at <u>https://countywideplan.com/resources/document-download/</u>. Accessed August 4, 2022.

#### Intactness

Intactness refers to the visual integrity of the natural and human-built landscape and its freedom from encroaching elements. Intactness can be present in developed urban and rural landscapes, as well as in natural settings. The Project Site vicinity is generally a rural desert landscape and includes primarily undeveloped land, U.S. Route 95, WAPA transmission towers, dirt roadways, and various rural residential properties. The intactness of the existing landscape is moderately low due to the existing infrastructure within the viewshed.

#### Unity

Unity refers to the visual coherence and compositional harmony of the landscape considered as a whole. Unity frequently attests to the careful design of individual built components in the landscape. The WAPA transmission towers traverse the western edge of the flat desert landscape in the Project area. While moderately contrasting in form, line, and color with the surrounding vegetation and terrain, the towers tend to recede into the background landscape somewhat with increased distance from receptors. For example, for motorists traveling on U.S. Route 95, the WAPA towers would be visible, but the scale of the features is reduced due to the presence of mountainous terrain in the background viewing distance. The visual prominence of the towers increases with proximity. The line and color of the towers increasingly contrast with background terrain. Visual unity of the landscape is moderately low.

#### Viewer Response

Viewer response is composed of two elements: Viewer sensitivity and viewer exposure. These elements combine to form a method of predicting how the viewer might react to visual changes brought about by a project. The potential for viewers in the Project Site vicinity is moderate, as the nearest paved road to the Project Site is U.S. Route 95 directly to the west. Therefore, the Project Site would have moderately high visibility from this highway. No existing residences are within the viewshed of the Project Site is not within the viewshed of any designated scenic vistas.

#### **Viewer Groups**

Landscape visibility and a viewer's ability to perceive detail, color, form, and texture diminish as distance increases. Typically, the closer a resource is to the viewer, the more visually dominant the resource is. Generally, viewers cannot ascertain details at distances greater than three miles. Distance zones (or the position of the viewer in relationship to the landscape) are defined as follows:

- Foreground: 0.25-0.5 mile from the viewer
- Middleground: Extends from the foreground zone to 3-5 miles from the viewer
- Background: Extends from the middleground zone to the limit of visibility.

Due to the location of the Project, viewer groups that would be afforded views of the Project are primarily motorists and residents. Local residents, although not within the immediate viewshed of the Project Site, would experience views of the solar and energy storage site from the local public roads when driving to their homes. Local roads surrounding the Project Site include U.S. Route 95, as well as dirt roads including Old Parker Road and Citrus Ranch Road. The two dirt roads have a low levels of use and provide direct

access to rural residences. U.S. Route 95 has a higher level of use with an average annual daily traffic of 900 vehicles per day and provides regional access to a greater volume of motorists.<sup>3</sup>

Motorists traveling on U.S. Route 95 would have a direct view of the solar and energy storage facilities. Motorists traveling on the highway include people living in the Vidal Junction area, at the Colorado River Indian Reservation, and tourists who travel to the area to see the desert.

#### Nighttime Lighting

The Project Site and surrounding area are generally devoid of significant nighttime lighting sources. Existing light sources in the area consist primarily of lighting associated with the scattered rural residences. No streetlights exist along the perimeter roadways, including Old Parker Road and Citrus Ranch Road, and streetlights are not installed along U.S. Route 95.

#### 4.1.3 Regulatory Setting

#### State

#### Senate Bill 1467

The California Department of Transportation (Caltrans) manages the State Scenic Highway Program. Senate Bill (SB) 1467 established the California Scenic Highway Program in 1963 and allows the designation of highways to be either officially designated as a State Scenic Highway by Caltrans or to be designated as eligible for such a designation. SB 1467 declares: "The development of scenic highways will not only add to the pleasure of the residents of this state but will also play an important role in encouraging the growth of the recreation and tourist industries upon which the economy of many users of this State depends."

According to Section 263.1 of the Streets and Highways Code, Highway 62 from I-10 in White Water to the Arizona State line is included in the State Scenic Highway System as an eligible State Scenic Highway.

#### Local

#### San Bernardino Countywide Plan/Policy Plan

The County adopted the Countywide Plan/Policy Plan (Policy Plan) in October 2020. The Policy Plan provides an update of the County's General Plan addressing physical, social, and economic issues facing the unincorporated portions of the County. The Policy Plan also provides an expansion of the County's General Plan to address supportive service for adults and children, healthcare service, public safety, and other regional county services provided to both incorporated and unincorporated areas. Relevant policies from the Policy Plan are summarized below.

Land Use Element

**Policy LU-2.3** The design and siting of the project should be located, scaled, and buffered for compatibility with the surrounding natural environment and biodiversity.

<sup>&</sup>lt;sup>3</sup> California Department of Transportation, *Traffic Volumes (excel file),* 2019. Available at <u>https://dot.ca.gov/programs/traffic-operations/census</u>. Accessed on August 4, 2022.

Policy LU-4.7Protect the night sky by implementing all outdoor lighting within the Night Sky<br/>Protection Ordinance and preserve dark skies where they are fundamentally<br/>connected to community identities and local economies

#### Natural Resources Element

- **Policy NR-4.1** The location and scale of the project should be considered during development to preserve regionally significant scenic vistas and natural features, including prominent hillsides, ridgelines, dominant landforms, and reservoirs.
- **Policy NR-4.2** Coordinate with adjacent Federal, State, Local, and/or Tribal agencies to protect the scenic resources that are important to countywide residents, businesses, and tourists.
- **Policy NR-4.3** New off-site signage should not be installed and existing signage is encouraged to be removed to preserve the scenic character of the surrounding landscape.

#### Renewable Energy and Conservation Element

- **RE Policy 4.1** Apply standards to the design, siting, and operation of all renewable energy facilities that protect the environment, including sensitive biological resources, air quality, water supply and quality, cultural, archaeological, paleontological and scenic resources.
- **RE Policy 4.4** Encourage siting, construction and screening of [renewable energy] generation facilities to avoid, minimize or mitigate significant changes to the visual environment including minimizing light and glare.
- **RE Policy 5.1** Encourage the siting of [renewable energy] generation facilities on disturbed or degraded sites in proximity to necessary transmission infrastructure.
- **RE Policy 5.7** Support renewable energy projects that are compatible with protection of the scenic and recreational assets that define San Bernardino County for its residents and make it a destination for tourists.

#### County of San Bernardino Development Code

#### Section 83.07.040, Glare and Outdoor Lighting – Mountain and Desert Regions

Section 83.07.040 establishes standards for outdoor lighting in the County's Mountain and Desert Regions. The Project Site is located in the Desert Region. This section requires new permitted lighting for construction and operational lighting to be fully shielded to preclude light pollution or light trespass on adjacent properties, other property within the line of sight (direct or reflected) of the light source, or members of the public who may be traveling on adjacent roadways or rights-of-way.

Section 84.29.035, Required Findings for Approval of a Commercial Solar Energy Facility

Section 84.29.035 includes the following provisions:

a) In order to approve a commercial solar energy generation facility, the Planning Commission shall, in addition to making the findings required under Section 85.06.040(a) of the San Bernardino County Development Code, determine a broad variety of topics, including that the

location of the proposed commercial solar energy facility is appropriate in relation to the desirability and future development of communities, neighborhoods, and rural residential uses, and will not lead to loss of the scenic desert resources that are key to maintaining a vibrant desert tourist economy by making each of the findings of fact, as provided for in the Development Code.

- b) In making these findings of fact, the Planning Commission shall consider:
  - 1. The characteristics of the commercial solar energy facility development site and its physical and environmental setting, as well as the physical layout and design of the proposed development in relation to nearby communities, neighborhoods, and rural residential uses; and
  - 2. The location of other commercial solar energy generation facilities that have been constructed, approved, or applied for in the vicinity, whether within a city of unincorporated territory, or on state or federal land.
- c) The finding of fact shall include the following:
  - 1. The proposed commercial solar energy generation facility is either:
    - A. Sufficiently separated from existing communities and existing/developing rural residential areas so as to avoid adverse effects, or
    - B. Of a sufficiently small size, provided with adequate setbacks, designed to be lower profile than otherwise permitted, and sufficiently screened from public view so as to not adversely affect the desirability and future development of communities, neighborhoods, and rural residential use.
  - 2. Proposed fencing, walls, landscaping, and other perimeter features of the proposed commercial solar energy generation facility will minimize the visual impact of the project so as to blend with and be subordinate to the environment and character of the area where the facility is to be located.
  - 3. The siting and design of the proposed commercial solar energy generation facility will be either:
    - A. Unobtrusive and not detract from the natural features, open space and visual qualities of the area as viewed from communities, rural residential uses, and major roadways and highways, or
    - B. Located in such proximity to already disturbed lands, such as electrical substations, surface mining operations, landfills, wastewater treatment facilities, etc., that it will not further detract from the natural features, open space and visual qualities of the area as viewed from communities, rural residential uses, and major roadways and highways.

- 4. The siting and design of project site access and maintenance roads have been incorporated in the visual analysis for the project and shall minimize visibility from public viewpoints while providing needed access to the development site.
- 5. The proposed commercial solar energy generation facility will avoid modification of scenic natural formations.

#### Section 84.29.040, Solar Energy Development Standards

Section 84.29.040 includes the following standards applicable to the proposed Project:

- b) Glare. Solar energy facilities shall be designed to preclude daytime glare on any abutting residential land use zoning district, residential parcel, or public right-of-way.
- c) Night Lighting. Outdoor lighting within a commercial solar energy generation facility shall comply with the provisions of Chapter 83.07 of the Development Code.

#### San Bernardino County Ordinance No. 3900

Because desert and mountain residents value the night sky conditions, the County adopted Ordinance No. 3900, also known as the Night Sky Ordinance. This ordinance outlines specific standards relating to glare and outdoor lighting. These standards are included in the sections of the Development Code described previously.

#### 4.1.4 Thresholds of Significance

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to aesthetics if it would:

- Threshold (a): Have a substantial adverse effect on a scenic vista;
- **Threshold (b):** Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway;
- **Threshold (c):** Substantially degrade the existing visual character or quality of public views of the site and its surroundings; or
- **Threshold (d):** Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area.

As identified in Section 6.5: Effects Found Not to Be Significant, impacts related to Threshold (a) and Threshold (b) were determined to be less than significant and do not require further analysis in the Draft EIR.

#### 4.1.5 Methodology

#### **Key Observation Points**

Three key observation points (KOPs) were selected as representative vantage points in the landscape that offer motorists, including local residents traveling on area roadways, views of the Project Site. The locations of identified KOPs are shown in **Figure 4.1-1**, *KOP Overview Map*.

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Factors considered in the selection of KOPs included proximity to the Project Site, view angle, viewer concentration, view duration and frequency, and the amount of the Project Site that would be visible. One KOP (KOP 1) was selected from Old Parker Road and Desert Ranch Road, in the vicinity of a nearby rural residence, while the other two KOPs (KOP 2 and 3) selected from U.S. Route 95 immediately to the west of the Project Site. More distant viewing locations were not selected as KOPs as the visual details of the Project components would not be highly visible or prominent.

Additional Character Photos were taken of the existing conditions of the Project Site and are included as Appendix B of this Draft EIR. These Character Photos were taken from selected locations to support the discussion on existing visual setting and the analysis of potential visual impacts associated with the Project.

#### Viewshed Analysis

The viewshed is generally the area that is visible from an observer's viewpoint and includes the screening effects of intervening vegetation and/or physical structures. A topographic viewshed analysis was conducted for the Project to illustrate the geographic extent of potential views of the Project area and to comply with San Bernardino County Code Section 82.19.040 related to lighting. The topographic viewshed analysis for the Project is shown below in **Figures 4.1-2** through **4.1-4**. The viewshed analysis indicates that the Project Site is only distantly visible from the nearest roadways. Generally, the Project Site would be most visible from viewpoints within one mile. Site visibility diminishes as distance increases and the view angle decreases.

#### **Visual Simulations**

The visual simulations were developed using the following methodology: KOPs are identified, and several photos are collected at each KOP looking towards the Project Site. Photos are collected with a professional grade digital single-lens reflex (DSLR) camera. Each photo has direction, latitude, longitude, and elevation recorded to the metadata. A virtual camera is created with Autodesk 3DS Max, and the settings of the virtual camera are modified to match that of the physical camera used to collect the photos.

The virtual camera in Autodesk 3DS Max is aligned to the photograph using existing terrain data (LiDAR, Topographic) and other key features within the field of view. Once the virtual camera is aligned and settings adjusted to match the DSLR camera settings, materials, sun system and shadows are implemented. The Project design and 3D model is imported, or modeled in Autodesk 3DS Max, based on provided engineering design files.

The virtual camera is then rendered, using a physics based render engine (V-Ray) that calculates complex light bounces, reflection and refraction of materials. The rendered image is embedded into the matching photo, then atmospherics, blur and film grain are applied to the rendered elements to match the photo. The finished simulation will depict accurate scale, size and placement of the 3D elements, based on the best available data during the visual simulation development.

**Figure 4.1-2**, *KOP 1*, shows KOP 1 with views facing southeast from Desert Ranch Road and Old Parker Road, with the Existing Conditions showing low-lying vegetation, the dirt road, and WAPA power poles in the distance that characterize the Project Site and surrounding area. An occupied residence is located approximately 1,600 feet from KOP 1 and 1,600 feet from the nearest Project Site boundary line. The Proposed Conditions visual shows that the existing visual environment would be mostly unchanged, with Project structures distantly visible, with most of the structures not being perceptible at this distance.

**Figure 4.1-3**, *KOP 2*, shows KOP 2 with views facing southeast from U.S. Route 95. The Existing Conditions view shows an existing structure in the distance as well as WAPA transmission towers running north to south in the foreground, with distant views of mountain ridges in the background. The Proposed Conditions view shows that the solar panels will be visible from U.S. Route 95 with the battery storage facility less visually prominent due to the distance from the U.S. Route 95. Due to the distance and low height of the solar panels, views of mountains would remain visible.

Lastly, **Figure 4.1-4**, *KOP 3*, shows KOP 3 facing northeast from U.S. Route 95 at the border of San Bernardino and Riverside Counties. The Existing Conditions view shows utility poles, directional signage, and power lines visible in the foreground with more distant views of mountain ridges in the background.

Under Proposed Conditions, the solar panels will be visible from U.S. Route 95 but will be similar in height as the low-lying vegetation. Due to the distance and low height of the solar panels, views of mountains would remain visible.

#### Visual Change Analysis

The existing view photographs were compared to the simulated views to define the degree of visual change and visual impacts caused by the Project. The anticipated degree of viewer sensitivity (i.e., low, moderate, or strong) is disclosed for each KOP. Factors considered in determining degree of contrast include distance, view angle, view exposure, relative size or scale, and spatial relationships.

#### **Glint and Glare Review**

Potential glint and glare conditions were evaluated through a review of the *Utility-Scale Solar Energy Facility Visual Impact Characterization and Mitigation Study Project Report* published by the Argonne National Laboratory, which evaluates visual impacts for different types of solar projects.<sup>4</sup> The glint and glare analysis discussed in Threshold (d) below includes a review of a similar single-axis PV solar Project in southern Nevada. This has been included as an additional evaluation method.

<sup>&</sup>lt;sup>4</sup> Sullivan and Abplanalp, Utility-Scale Solar Energy Facility Visual Impact Characterization and Mitigation Study Project Report, January 2014. Available at <u>https://www.researchgate.net/publication/261559543\_Utility-</u> <u>Scale Solar Energy Facility Visual Impact Characterization and Mitigation Study Project Report</u>. Accessed September 26, 2022.





PHOTO SIMULATIONS ARE FOR DISCUSSION PURPOSES ONLY. FINAL DESIGN IS SUBJECT TO CHANGE.

# VIDAL SOLAR ENERGY FACILITY

# Figure 4.1-2 KOP 1

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## **PROPOSED CONDITIONS**



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# **VIDAL SOLAR** ENERGY FACILITY

# Figure 4.1-3 KOP 2

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### **PROPOSED CONDITIONS**

PHOTO SIMULATIONS ARE FOR DISCUSSION PURPOSES ONLY. FINAL DESIGN IS SUBJECT TO CHANGE.

## VIDAL SOLAR ENERGY FACILITY

# Figure 4.1-4 KOP 3

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# 4.1.6 **Project Impact Analysis**

# Threshold (c): Would the Project substantially degrade the existing visual character or quality of public views of the site and its surroundings?

The Project Site is located in a non-urbanized area. The existing visual quality of the Project Site and surrounding lands is moderate, due to the undeveloped and vacant land with scattered rural residential properties, and some prominent transportation and utility infrastructure. Existing views and the analysis of visual change are described below for representative local roads surrounding the Project Site. The location and view direction of each of the KOP photos are shown on Figure 4.1-1. Existing simulated KOP figures are provided in Figures 4.1-2 through 4.1-4. The proposed solar and energy storage facilities would introduce solar PV panels, buildings and other ancillary components to a primarily undeveloped high desert landscape. The proposed panels would be approximately a maximum of 18 feet above grade at the tallest point and approximately 2 feet above the grade at the lowest point.

# Foreground Views of the Project

As described earlier, KOP 2 and KOP 3 represent views of the solar and energy storage facility from U.S. Route 95, just west of the Project Site (less than 0.25 mile), with KOP 2 north of Lye Road and KOP 3 south of Lye Road. This portion of U.S. Route 95 has a volume of approximately 900 average daily trips. The Project Site is in the immediate foreground, and the visual simulations represent the change in visual quality at a close viewing distance.

As shown in KOP 2 and KOP 3, the solar arrays would be visible in the foreground with views partially obstructed by existing desert shrubs and trees. The proposed solar equipment are low in profile, including PV modules mounted on fixed-tilt foundations or tracker units and associated electrical equipment that would display a height of approximately 12 feet. The Project would also include overhead collection lines, access roads, and a 6-foot chain-link perimeter fence. The battery storage facilities and substation would not be visible from any of the KOP vantage points. Views of expansive mountain ridgelines would remain be visible in the background, similar to existing conditions. The level of visual change with construction of the Project would be moderate, as the solar panels would become the predominant features in the foreground.

The solar panels would have a uniform color, texture, and form, which would moderately contrast with the color and form of the desert vegetation and landscape. The existing scenic quality of the area is moderately low due to the existing visual encroachments including existing dirt roads and utility lines. The moderate level of visual change on the landscape in an area with moderately low visual quality would result in a less than significant impact on visual quality.

# Middleground Views of the Project

The middleground view of the Project from Old Parker Road is represented by KOP 1. After construction, Project facilities would be indistinct and not visually prominent in the middleground view. Project components would appear low to the ground and less discernable in the middleground views. The Project facilities would become visually imperceptible at the distance and viewing angle of KOP 1. Intervening topography and vegetation would provide some screening of the solar facilities. The Project would appear as a series of flat, grey horizontal forms from KOP 1, and the mountains and desert vegetation would remain visually prominent. The use of non-galvanized steel and other non-reflective materials would reduce the potential for reflectivity and would result in a low level of change from the existing

environment. The Project elements would only be slightly noticeable in the middleground of KOP 1 due to the contrast in color with the surrounding desert landscape. However, the Project would result in a low level of visual change from views on Old Parker Road. Therefore, the impact on visual quality is considered less than significant.

As such, the Project would not substantially degrade the existing visual character or quality of public views of the site and its surroundings, and impacts would be less than significant.

# Threshold (d): Would the Project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

# Lighting

#### Construction

Construction of the Project is anticipated to occur during daytime hours as permitted by the County. However, if necessary and approved by the County, nighttime construction activities could occur, which may involve the use of temporary construction lighting equipment. Construction lighting is meant to be bright, and any such lighting may be visible for a great distance from nearby residences and roadways where there is an absence of intervening vegetation and topography. The use of any bright construction lighting would be temporary during the construction phase and would only occur if nighttime work was approved by the County. Any construction lighting would be directed away from any adjacent residences and toward active construction areas. Therefore, Project construction would not create a new source of substantial light that would adversely affect day or nighttime views in the area, and impacts would be less than significant.

#### **Operation and Maintenance**

The proposed solar and energy storage Project would have lighting installed at the primary access gates to the Project Site, within the battery storage containers, and around the on-site substation. Project lighting would be shielded and directed downward to minimize light trespass onto any surrounding properties. Lighting within the battery storage containers would be motion-activated. Project lighting at the substation would normally be off unless activated by on-site personnel.

In addition, nighttime lighting associated with the solar and energy storage Project would be subject to County approval and compliance with County requirements. As summarized in the Regulatory Setting, County Ordinance No. 3900 regulates glare, outdoor lighting, and night sky protection; and County Development Code Section 83.07.040 regulates outdoor lighting practices geared toward minimizing light pollution, glare, and light trespass; conserving energy and resources while maintaining nighttime safety, visibility, utility, and productivity; and curtailing the degradation of the nighttime visual environment. County lighting regulations require submittal of and approval of exterior lighting plans, per the General Plan, and any new Project lighting would be installed consistent with County requirements. Therefore, Project operation would not create a new source of substantial light that would adversely affect day or nighttime views in the area, and impacts would be less than significant.

#### **Glint and Glare**

#### Solar PV Panels

The Project would use darkly colored matte PV solar panels featuring an anti-reflective coating. Photovoltaic solar panels are designed to be highly absorptive of light that strikes the panel surfaces, generating electricity rather than reflecting light. The solar panels are also designed to track the sun to maximize panel exposure to the sun, which would direct the majority of any reflected light back toward the sun in a skyward direction. PV panels have a lower index of refraction/reflectivity than common sources of glare in residential environments. The glare and reflectance levels of panels are further reduced with the application of anti-reflective coatings. PV suppliers typically use stippled glass for panels as the "texturing" of the glass to allow more light energy to be channeled/transmitted through the glass while weakening the reflected light. With the application of anti-reflective coatings and use of modern glass technology, project PV panels would display overall low reflectivity.

The PV panels would be angled perpendicular to the east-west direction of the sun and are designed to track the position of the sun throughout the day to maximize panel exposure if a tracking system is used. Alternatively, the panels could be installed on a fixed-tilt system and would face to the south. The greatest potential for light reflection to reach viewer locations would occur with a tracking system when the panels would be angled toward the horizon at sunrise and sunset. During these periods, the solar panels would be tilted approximately 10 degrees below a horizontal plane in the direction of the sun. Unabsorbed light would reflect at approximately 20 degrees above the opposite horizon.

The solar power and energy storage facility would be located in a broad flat valley. Potential viewers of the facility primarily include motorists on U.S. Route 95 and residents, who would be less than 20 degrees above the facility. Motorists and residents would not be exposed to the glare at sunrise or sunset due to the low viewing angle. Motorists and residents may perceive indirect glare as an increase in color contrast in the early morning hours when the darkly colored PV panels could appear as lightly colored or while. However, this indirect glare would be brief and would not cause a nuisance to motorists or residents.

The Project would also be designed to ensure consistency with San Bernardino County Code Section 84.29.040, which requires solar energy facilities to be designed to preclude daytime glare on any abutting residential land use zoning district, residential parcel, or public right-of-way. The solar PV panels would not create a substantial source of glare due to the use of anti-reflective coating on the panels and the elevation of potential receptors relative to the facility. Impacts would be less than significant.

#### Metallic Electrical Equipment, Power Poles, and Buildings

Project facilities, including the gen-tie line, battery storage facilities, and on-site substation, would be constructed with metallic components, which could introduce new sources of glare compared to the undeveloped area. Any glare associated with the facilities would be minor and highly scattered because the metallic components would be separated geographically and would not concentrate potential glare in any area. In addition, for the metallic components, the Project would include use of non-galvanized steel or other similar materials to reduce glint and glare. The new overhead conductor and steel support structures installed for the on-site substation and gen-tie line would reflect approximately the same level of light as the existing transmission line facilities in the Project area. Therefore, the metallic electrical equipment, power poles, and buildings would not create a new source of substantial glare that would adversely affect day or nighttime views in the area, and impacts would be less than significant.

# 4.1.7 Cumulative Impacts

Chapter 3.0, Environmental Setting, of this Draft EIR provides a list of related projects that would have the potential to be considered in a cumulative context with the Project's incremental contribution. These projects are summarized in **Table 3-2**, *Related Projects*, and shown in **Figure 3-1**, *Related Projects in the Planning Area*. The geographic scope for the analysis of cumulative impacts on aesthetic resources includes both the local viewshed within a one-mile radius of the Project Site and area (generally the Vidal area). Local cumulative effects could occur in the immediate Project viewshed if related projects, activities, and landscapes are visible in the same field of view as the Project and could generally be visible from the Project area. Beyond three miles, structures become less distinct or not visible because they blend sufficiently with background forms, colors, and textures. Also, beyond three miles, it is likely that sight lines will become impaired or blocked by intervening terrain and vegetation. However, regional cumulative effects could still occur if viewers perceive that the general visual quality or landscape character of a regional area is diminished by the proliferation of visible similar structures or construction, even if the changes are not in the same field of view as existing or known future structures or facilities. The result is a perceived "industrialization" or "urbanization" of the existing landscape character. The extent of regional cumulative effects is limited to the project valley.

# **Potential Cumulative Impacts**

The analysis below focuses on cumulative impacts to the local and regional viewshed results from development within approximately 40 miles of the Project Site, as many of the related projects are located over 100 miles away, and therefore would not contribute to a cumulatively considerable visual or aesthetic impact due to intervening topography or geographic separation. The following related projects are proposed in the regional vicinity of the Project:

- Related Project 6: Parker Blythe No. 2 Transmission Line Rebuild (approximately 8 miles away)
- Related Project 8: Bouse-Kofa 161 kV Rebuild (approximately 10 miles away)
- Related Project 9: Parker David Transmission System Routine Operation and Maintenance Project and Proposed Integrated Vegetation Management Program (approximately 34 miles away)

The proposed transmission line rebuild or maintenance projects would not contribute to cumulative aesthetic impacts with the Project, because the visual elements of those separate projects are existing features in the environment and would also appear visually distinct and unrelated to the proposed solar facility and substation.

# Visual Quality

The local cumulative impact on visual quality would be less than significant because all three of the related projects in the general vicinity are existing projects and impacts during construction would be temporary. The rebuild of the transmission lines and the maintenance of the transmission system would not introduce new features that would cause cumulative impacts considering the addition of the Project. Travelers on the highways would already be used to seeing the transmission lines that are undergoing upgrades and maintenance, so the related projects would not add new visual features once construction is completed. In addition, the local and regional cumulative impact on visual quality would be less than significant because views of the related projects from the Project area would generally be screened by intervening topography and vegetation. Therefore, the Project's contribution to cumulative impacts associated with visual character or quality would not be considerable.

# Light and Glare

The County is known for its dark skies. The related projects would be subject to the County's Night Sky Ordinance and Glare and Outdoor Lighting standards (County Development Code Section 83.07.040), which would limit the amount of lighting that would be introduced to the area and restrict the type of lighting that could be used. The cumulative impact on the night sky would be less than significant due to the conformance with the County's lighting ordinance. The related projects would not introduce new sources of glare that would be directed into any area. No cumulative light and glare impact would occur. Therefore, the Project's contribution to cumulative impacts associated with lighting and glare would not be considerable.

# 4.1.8 Mitigation Measures

As detailed above, the Project would not result in significant impacts regarding aesthetics. Therefore, no mitigation measures are required.

# 4.1.9 Level of Significance After Mitigation

No mitigation measures are required. Impacts related to aesthetics would be less than significant.

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# 4.2 AIR QUALITY

# 4.2.1 Introduction

This section addresses potential air quality impacts that may result from construction and operation of the Project. The section discusses the existing air quality conditions in the Project area, identifies applicable regulations, evaluates the Project's consistency with applicable air quality plans, identifies and analyzes environmental impacts, and recommends measures to reduce or avoid potential adverse impacts anticipated from implementation of the Project, as applicable.

Information contained in this section is derived from the Air Quality and Greenhouse Gas Emissions Impact Analysis, dated September 19, 2022, prepared by Vista Environmental (Appendix C).

# 4.2.2 Existing Environmental Setting

Air quality and dispersion of air pollution in an area is determined by such natural factors as topography, meteorology, climate, atmospheric stability. In addition, man-made influences such as development patterns and lifestyle can affect the generation of and exposure to air borne pollutants. These factors are described in more detail below.

# Topography

The State of California is divided geographically into 15 air basins, generally along geographic or topographic boundaries. The Project Site is located within the San Bernardino County (County) portion of the Mojave Desert Air Basin (Basin). The Basin includes the desert portion of Los Angeles and San Bernardino Counties, the eastern desert portion of Kern County, and the northeastern desert portion of Riverside County. The Mojave Desert Air Quality Management District (MDAQMD) has jurisdiction over stationary sources of air pollution located within San Bernardino County's High Desert and Riverside County's Palo Verde Valley, which includes the Project Site.

The Basin is bound in the northwest by the Tehachapi Mountains, in the southwest by the San Gabriel Mountains, and in the south by the San Bernardino Mountains. To the north, the Basin is defined by the San Bernardino-Inyo County boundary, to the northeast the California-Nevada state line, and to the east by the Colorado River.<sup>1</sup> The San Gabriel and San Bernardino Mountains are high and rugged, with the highest peaks being 10,066 feet above sea level (Mt. San Antonio) and 11,503 feet (Mt. San Gorgonio), respectively. The Basin generally lies at 3,000 to 6,000 feet elevation.

The Mojave Desert is situated in a transitional zone between the Great Basin Desert to the north and the Sonoran Desert to the south (mainly between 34 and 38°N latitudes).<sup>2</sup> The area is primarily a rain-shadow desert, meaning it experiences little rainfall because it is sheltered from prevailing rain-bearing winds (i.e., off the Pacific Ocean) by a range of mountains.

<sup>&</sup>lt;sup>1</sup> California Air Pollution Control Officers Association, Maps, 2021. Available at <u>http://www.capcoa.org/maps/</u>. Accessed August 25, 2022.

<sup>&</sup>lt;sup>2</sup> Desert U.S.A., Mojave Desert, 2021. Available at <u>https://www.desertusa.com/mojave-desert.html</u>. Accessed August 25, 2022.

# Meteorology and Climate

Factors such as wind, sunlight, temperature, humidity, and rainfall, affect the accumulation and/or dispersion of air pollutants throughout the Basin. Local meteorological conditions are greatly affected by the topography of the region.

Prevailing winds in the Basin are out of west and southwest. These prevailing winds are due to the proximity of the Basin to coastal and central regions and the blocking nature of the Sierra Nevada Mountains to the north. Air masses pushed onshore in Southern California by differential heating are channeled through the mountain passes. Although a portion of the prevailing winds come from the Los Angeles Basin via the canyons, the vast majority of the winds are a result of the orographic effect and the desert heat low-pressure systems. The "orographic effect" is the phenomenon whereby the air is forced over the mountain range and loses moisture as it rises. When it descends, it also compresses and heats up. The speed of the wind is aided by the "desert heat low", which routinely form over the eastern Mojave Desert area.

During the summer, a Pacific Subtropical High Cell that sits off the coast generally influences the Basin, inhibiting cloud formation and encouraging daytime solar heating. The Basin is rarely influenced by cold air masses moving south from Canada and Alaska, as these frontal systems are weak and diffuse by the time the reach the desert. Most desert moisture arrives from infrequent warm, moist, and unstable air masses from the south. The Basin averages between three and seven inches of precipitation per year (from 16 to 30 days with at least 0.01 inches of precipitation). The Basin is classified as a dry-hot desert climate, with portions classified as dry-very hot desert, indicating at least three months of maximum average temperatures over 100.4° F.

# **Sensitive Receptors**

Sensitive receptors are more susceptible to the effects of air pollution than the general population. Sensitive populations (sensitive receptors) that are in proximity to localized sources of toxics and carbon monoxide are of particular concern. Sensitive receptors are defined as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and people with illnesses. Examples of these sensitive receptors are residences, schools, hospitals, daycare centers, and outdoor recreation areas. The nearest sensitive receptor to the Project Site is an unoccupied home located approximately 740 feet west of the Project Site and is located on the west side of U.S. Route 95. The closest occupied residence is located over 1,600 feet to the north along Old Parker Road.

# Air Pollutants of Concern

Pollutants of concern include ozone  $(O_3)$ , nitrogen dioxide  $(NO_2)$ , carbon dioxide (CO), sulfur dioxide  $(SO_2)$ , particulate matter (PM) with diameters of 10 and 2.5 micrometers or less (PM10 and PM2.5, respectively), and lead. These pollutants are discussed below. In California, sulfates, vinyl chloride, hydrogen sulfide, and visibility-reducing particles are also regulated as criteria air pollutants.

#### Ozone

Ozone is a colorless gas that is formed in the atmosphere when volatile organic compounds (VOCs), sometimes referred to as reactive organic gases (ROG), and nitrogen oxides ( $NO_x$ ) react in the presence of ultraviolet sunlight. Ozone is a secondary pollutant as it is not directly emitted. Ozone is the result of

chemical reactions between other pollutants, most importantly hydrocarbons and NO<sub>2</sub>, which occur only in the presence of bright sunlight. Pollutants emitted from upwind cities react during transport downwind to produce the oxidant concentrations experienced in the area. Many areas of Southern California contribute to the O<sub>3</sub> levels experienced at the Blythe Station, with the more significant areas being those directly upwind. Automobile exhaust and industrial sources are the primary sources of VOCs and NO<sub>x</sub>. Meteorology and terrain play major roles in O<sub>3</sub> formation. Ideal conditions occur during summer and early autumn on days with low wind speeds or stagnant air, warm temperatures, and cloudless skies. O<sub>3</sub> can damage the tissues of the respiratory tract, causing inflammation and irritation, and result in symptoms such as coughing, chest tightness and worsening of asthma symptoms.<sup>3</sup>

The State 1-hour and 8-hour concentration standards for  $O_3$  have not been exceeded over the past three years at the Blythe Station. The Federal 8-hour  $O_3$  standard has not been exceeded over the past three years at the Blythe Station.

#### Nitrogen Dioxide

Most NO<sub>2</sub>, like O<sub>3</sub>, is not directly emitted into the atmosphere but is formed by an atmospheric chemical reaction between nitric oxide (NO) and atmospheric oxygen. NO and NO<sub>2</sub> are collectively referred to as NO<sub>x</sub> and are major contributors to O<sub>3</sub> formation. High concentrations of NO<sub>2</sub> can cause breathing difficulties and result in a brownish-red cast to the atmosphere with reduced visibility. There is some indication of a relationship between NO<sub>2</sub> and chronic pulmonary fibrosis. Some increase in bronchitis in children (2 and 3 years old) has also been observed at concentrations below 0.3 parts per million (ppm) by volume.

The Palm Springs Station did not record an exceedance of either the Federal or State 1-hour NO<sub>2</sub> standards for the last three years.

#### Carbon Monoxide

Carbon monoxide is a colorless and odorless gas formed by the incomplete combustion of fossil fuels. Carbon monoxide is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. Automobile exhaust accounts for most CO emissions. Carbon Monoxide is a nonreactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. Concentrations are influenced by local meteorological conditions, primarily wind speed, topography, and atmospheric stability. Carbon monoxide from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions. The highest levels of CO typically occur during the colder months of the year when inversion conditions are more frequent. In terms of health, CO competes with oxygen, often replacing it in the blood, thus reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can be dizziness, fatigue, and impairment of central nervous system functions.

# Sulfur Dioxide

Sulfur dioxide  $(SO_2)$  is a colorless, pungent gas formed primarily by the combustion of sulfur containing fossil fuels. Main sources of SO<sub>2</sub> are coal and oil used in power plants and industries; as such, the highest

<sup>&</sup>lt;sup>3</sup> California Air Resources Board (CARB). 2021a. Ozone & Health. Available at <u>https://ww2.arb.ca.gov/resources/ozone-and-health</u>. Accessed September 26, 2022.

levels of SO<sub>2</sub> are generally found near large industrial complexes. In recent years, sulfur dioxide concentrations have been reduced by the increasingly stringent controls placed on stationary source emissions of SO<sub>2</sub> and limits on the sulfur content of fuels. SO<sub>2</sub> is an irritant gas that attacks the throat and lungs and can cause acute respiratory symptoms and diminished ventilator function in children. SO<sub>2</sub> can also yellow plant leaves and corrode iron and steel.

#### Particulate Matter

Particulate matter pollution consists of very small liquid and solid particles floating in the air, which can include smoke, soot, dust, salts, acids, and metals. Particulate matter can form when gases emitted from industries and motor vehicles undergo chemical reactions in the atmosphere. PM2.5 and PM10 represent fractions of particulate matter. Fine particulate matter, or PM2.5, is roughly 1/28 the diameter of a human hair. PM2.5 results from fuel combustion (e.g., motor vehicles, power generation, and industrial facilities), residential fireplaces, and woodstoves. In addition, PM2.5 can be formed in the atmosphere from gases such as sulfur oxides (SO<sub>x</sub>), NO<sub>x</sub>, and VOC.

Inhalable or coarse particulate matter, or PM10, is about 1/7 the thickness of a human hair. Major sources of PM10 include: Crushing or grinding operations; dust stirred up by vehicles traveling on roads; woodburning stoves and fireplaces; dust from construction, landfills, and agriculture; wildfires and brush/waste burning; industrial sources; windblown dust from open lands, and; atmospheric chemical and photochemical reactions.

PM2.5 and PM10 pose a greater health risk than larger-size particles. When inhaled, these tiny particles can penetrate the human respiratory system's natural defenses and damage the respiratory tract. PM2.5 and PM10 can increase the number and severity of asthma attacks, cause or aggravate bronchitis and other lung diseases, and reduce the body's ability to fight infections. Very small particles of substances, such as lead, sulfates, and nitrates, can cause lung damage directly or be absorbed into the bloodstream, causing damage elsewhere in the body. Additionally, these substances can transport absorbed gases, such as chlorides or ammonium, into the lungs, also causing injury. Whereas PM10 tends to collect in the upper portion of the respiratory system, PM2.5 is so tiny that it can penetrate deeper into the lungs and damage lung tissues. Suspended particulates also damage and discolor surfaces on which they settle, as well as produce haze and reduce regional visibility.

The State 24-hour concentration standard for PM10 has been exceeded between 7 and 66 days each year over the past three years at the Niland Station. Over the past three years the Federal 24-hour standard for PM10 has been exceeded between 1 and 10 days each year of the past three years at the Niland Station. The annual PM10 concentration at the Niland Station has exceeded the State standard for the past three years and has not exceeded the Federal standard for the past three years.

Over the past three years the 24-hour concentration standard for PM2.5 has been exceeded between 0 and 2 days each year over the past three years at the Joshua Tree Station. No data was available for the annual PM2.5 concentration standards at the Joshua Tree Station. There does not appear to be a noticeable trend for PM10 or PM2.5 in either maximum particulate concentrations or days of exceedances in the area. Particulate levels in the area are due to natural sources, grading operations, and motor vehicles.

According to the United States Environmental Protection Agency (U.S. EPA), some people are much more sensitive than others to breathing fine particles (PM10 and PM2.5). People with influenza, chronic respiratory and cardiovascular diseases, and the elderly may suffer worsening illness and premature death

due to breathing these fine particles. People with bronchitis can expect aggravated symptoms from breathing in fine particles. Children may experience decline in lung function due to breathing in PM10 and PM2.5.

#### Lead

Lead in the atmosphere occurs as PM. Sources of lead include leaded gasoline; the manufacturing of batteries, paint, ink, ceramics, and ammunition; and secondary lead smelters. Prior to 1978, mobile emissions were the primary source of atmospheric lead. Between 1978 and 1987, the phase-out of leaded gasoline reduced the overall inventory of airborne lead by nearly 95 percent. With the phaseout of leaded gasoline, secondary lead smelters, battery recycling, and manufacturing facilities are becoming lead-emission sources of greater concern.

Prolonged exposure to atmospheric lead poses a serious threat to human health. Health effects associated with exposure to lead include gastrointestinal disturbances, anemia, kidney disease, and in severe cases, neuromuscular and neurological dysfunction. Of particular concern are low-level lead exposures during infancy and childhood. Such exposures are associated with decrements in neurobehavioral performance including intelligence quotient performance, psychomotor performance, reaction time, and growth.

#### Volatile Organic Compounds

VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity, that is, they do not react at the same speed or do not form  $O_3$  to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to  $O_3$ , which is a criteria pollutant. The terms VOC and ROG (see below) are often used interchangeably.

# Reactive Organic Gases

Similar to VOCs, ROGs are also precursors in forming  $O_3$  and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO<sub>x</sub> react in the presence of sunlight. The terms ROG and VOC are often used interchangeably.

# Valley Fever

Coccidioidomycosis (CM), often referred to as San Joaquin Valley Fever or Valley Fever, commonly affects people who live in hot dry areas with alkaline soil and varies with the season. This disease, which affects both humans and animals, is caused by inhalation of arthroconidia (spores) of the fungus *Coccidioides immitis* (CI). CI spores are found in the top 2-12 inches of soil and the existence of the fungus in most areas is temporary. The cocci fungus lives as a saprophyte in dry, alkaline soil. When weather and moisture conditions are favorable, the fungus "blooms" and forms many tiny spores that lie dormant in the soil until they are stirred up by wind, vehicles, excavation, or other ground-moving activities and become airborne. Agricultural workers, construction workers, and other people who work outdoors and who are

exposed to wind and dust are more likely to contract Valley Fever. Children and adults whose hobbies or sports activities expose them to wind and dust are also more likely to contract Valley Fever.

The fugus is known to live in the soil in the southwestern United States and parts of Mexico and Central and South America. People and animals can get sick when they breathe in dust that contains the Valley Fever fungus. This fungus infects the lungs and can cause respiratory symptoms including cough, fever, chest pain, and tiredness. In California, the number of reported Valley Fever cases has greatly increased in recent years. In facts, Valley fever cases tripled from 2014 to 2018. The number of Valley Fever cases in the United States has been steadily increasing over the past few years. There were over 11,000 reported cases in 2015, and the Center for Disease Control (CDC) estimates that an additional 150,000 cases go undiagnosed each year. About 28 percent of all cases occur in California. In 2015, there were 36 cases of Valley Fever in the County, an incidence rate of 1.7 cases per 100,000 people.

Currently, no vaccine is available to prevent this infection. Further, there is no effective way to detect and monitor CI growth patterns in the soil. Thus, controlling the growth of the fungus in the environment to reduce the risk to individuals is currently not a viable option. Even if the fungus is present in soil, earthmoving activities may not result in increased incidence of Valley Fever. Propagation of Coccidioides is dependent on climatic conditions, with the potential for growth and surface exposure highest following early seasonal rains and long dry spells.

# Ambient Air Quality

Ambient air quality for the Project Site can be determined from ambient air quality measurements conducted at nearby air quality monitoring stations. Existing levels of ambient air quality and historical trends in the region are documented by measurements made by the MDAQMD, the air pollution regulatory agency in the Basin that maintains air quality monitoring stations which process ambient air quality measurements. Air quality monitoring stations usually measure pollutant concentrations ten feet above ground level. Therefore, air quality is often referred to in terms of ground-level concentration. The U.S. EPA requires monitoring sites be capable of informing air pollution control officers about peak air pollution levels, typical levels in populated areas, air pollution transported into and out of a city or region, and air pollution levels near specific sources. Monitors must be designated with an appropriate site type so that the data collected can be used to support a specific federal monitoring objective.<sup>4</sup>

The Blythe Station is located approximately 33 miles south of the Project Site at 495 W. Murphy Street, Blythe. The Joshua Tree Station is located approximately 80 miles west of the Project Site at Cottonwood Campground. The Niland Station is located approximately 84 miles southwest of the Project Site at 7711 English Road, Niland. The Palm Springs Station is located approximately 119 miles west of the Project Site at 590 Racquet Club Avenue, Palm Springs. The monitoring data is presented in **Table 4.2-1**, *Local Area Air Quality Monitoring Summary*, and shows the most recent three years of monitoring data from CARB. Ozone was measured at the Blythe Station, NO<sub>2</sub> was measured at the Palm Springs Station, PM10 was measured at the Niland Station, and PM2.5 was measured at the Joshua Tree Station.

 <sup>&</sup>lt;sup>4</sup> CARB, Annual Network Plan: Covering Monitoring Operations in 25 California Air Districts, June 2018. Available at <a href="https://www.mdaqmd.ca.gov/home/showpublisheddocument/5982/636710697943470000">https://www.mdaqmd.ca.gov/home/showpublisheddocument/5982/636710697943470000</a>. Accessed September 26, 2022.

	Year		
Pollutant (Standard)	2018	2019	2020
Ozone:1			
Maximum 1-Hour Concentration (ppm)	0.067	0.064	0.066
Days > CAAQS (0.09 ppm)	0	0	0
Maximum 8-Hour Concentration (ppm)	0.060	0.059	0.053
Days > NAAQS (0.070 ppm)	0	0	0
Days > CAAQs (0.070 ppm)	0	0	0
Nitrogen Dioxide: <sup>2</sup>			
Maximum 1-Hour Concentration (ppb)	42.5	41.4	47.4
Days > NAAQS (100 ppb)	0	0	0
Inhalable Particulates (PM10): <sup>3</sup>			
Maximum 24-Hour National Measurement (ug/m <sup>3</sup> )	331.5	155.7	239.8
Days > NAAQS (150 ug/m <sup>3</sup> )	10	1	1
Days > CAAQS (50 ug/m <sup>3</sup> )	7	49	66
Annual Arithmetic Mean (AAM) (ug/m <sup>3</sup> )	47.5	32.1	35.6
Annual > NAAQS (50 ug/m <sup>3</sup> )	No	No	No
Annual > CAAQS (20 ug/m <sup>3</sup> )	Yes	Yes	Yes
Ultra-Fine Particulates (PM2.5): <sup>4</sup>			
Maximum 24-Hour National Measurement (ug/m <sup>3</sup> )	34.1	21.6	47.4
Days > NAAQS (35 ug/m <sup>3</sup> )	0	0	2
Annual Arithmetic Mean (AAM) (ug/m <sup>3</sup> )	ND	ND	ND
Annual > NAAQS and CAAQS (12 ug/m <sup>3</sup> )	ND	ND	ND

Table 4.2-1: Local Area Air Quality Monitoring Summary

Notes: Exceedances are listed in **bold**. CAAQS = California Ambient Air Quality Standard; NAAQS = National Ambient Air Quality Standard; ppm = parts per million; ppb = parts per billion; ND = no data available.

<sup>1</sup> Data obtained from the Blythe Station.

<sup>2</sup> Data obtained from the Palm Springs Station.

<sup>3</sup> Data obtained from the Niland Station.

<sup>4</sup> Data obtained from the Joshua Tree Station.

Source: California Air Resources Board, iADAM: Air Quality Data Statistics. Available at <u>http://www.arb.ca.gov/adam/</u>. See Appendix C of this Draft EIR.

# **Toxic Air Contaminants**

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute and/or chronic noncancer health effects. A toxic substance released into the air is considered a toxic air contaminant (TAC). Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills.

Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced either on short-term (acute) or long-term (chronic) exposure to a given TAC. The

CARB has identified diesel engine exhaust particulate matter as the predominant TAC in California. Diesel particulate matter (DPM) is emitted into the air by diesel-powered mobile vehicles, including heavy-duty diesel trucks, construction equipment, and passenger vehicles. Certain reactive organic gases may also be designated as TACs.

# 4.2.3 Regulatory Setting

#### Federal

#### **Clean Air Act**

The federal Clean Air Act (CAA), which was initially enacted by the U.S. Congress in 1963 and substantially revised in 1970, 1977 and 1990, can be found in Title 42, Chapter 85 of the United States Code. An important aspect of the CAA is its requirement for the U.S. EPA to establish National Ambient Air Quality Standards (NAAQS). There are NAAQS in place for seven "criteria" pollutants: CO, lead, NO<sub>2</sub>, O<sub>3</sub>, PM10, PM2.5, and SO<sub>2</sub>. Standards are classified as primary and secondary. Primary standards are designed to protect public health, including sensitive individuals, such as children and the elderly, whereas secondary standards are designed to protect public welfare, such as visibility and crop or material damage. The U.S. EPA sets the NAAQS based on a process that involves science policy workshops, a risk/exposure assessment (REA) that draws on the information and conclusions of the science policy workshops to development quantitative characterizations of exposures and associated risks to human health or the environment, and a policy assessment by U.S. EPA staff that bridges the gap between agency scientific assessments and the judgments required of the U.S. EPA administrator, who then takes the proposed standards through the federal rulemaking process.<sup>5</sup>

The federal CAA requires the EPA to routinely review and update the NAAQS in accordance with the latest available scientific evidence. For example, the EPA revoked the annual PM10 standard in 2006 due to a lack of evidence linking health problems to long-term exposure to PM10 emissions. The 1-hour standard for  $O_3$  was revoked in 2005 in favor of a new 8-hour standard that is intended to better protect public health.

CAA Section 182(e)(5) allows the U.S. EPA administrator to approve provisions of an attainment strategy in an extreme area that anticipates development of new control techniques or improvement of existing control technologies if the state has submitted enforceable commitments to develop and adopt contingency measures to be implemented if the anticipated technologies do not achieve planned reductions.

Nonattainment areas that are classified as "serious" or worse are required to revise their air quality management plans to include specific emission reduction strategies to meet interim milestones in implementing emission controls and improving air quality. The U.S. EPA can withhold certain transportation funds from states that fail to comply with the planning requirements of the act. If a state fails to correct these planning deficiencies within two years of federal notification, the U.S. EPA is required to develop a Federal Implementation Plan for the identified nonattainment area or areas.

<sup>&</sup>lt;sup>5</sup> United States Environmental Protection Agency (U.S. EPA), Process of Reviewing the National Ambient Air Quality Standards, 2021. Available at: <u>https://www.epa.gov/criteria-air-pollutants/process-reviewing-national-ambient-air-quality-standards</u>. Accessed September 26, 2022.

#### State

#### California Clean Air Act

The California Clean Air Act (CCAA) of 1988 requires all air pollution control districts in the state to aim to achieve and maintain state ambient air quality standards for O<sub>3</sub>, CO, and NO<sub>2</sub> by the earliest practical date and to develop plans and regulations specifying how the districts will meet this goal. There are no planning requirements for the state PM10 standard. CARB, which became part of the California Environmental Protection Agency (CalEPA) in 1991, is responsible for meeting state requirements of the federal Clean Air Act, administrating the California Clean Air Act, and establishing the California Ambient Air Quality Standards (CAAQS). The California Clean Air Act, amended in 1992, requires all air districts in the state to endeavor to achieve and maintain the CAAQS. The CAAQS are generally stricter than national standards for the same pollutants, but there is no penalty for nonattainment. The standards for the CAAQS are adopted after review by CARB staff of the scientific literature produced by agencies such as the Office of Environmental Health Hazard Assessment (OEHHA), the Air Quality Advisory Committee, which is comprised of experts in health sciences, exposure assessment, monitoring methods, and atmospheric sciences appointed by the Office of the President of the University of California, and public review and comment. The CAAQS are set at levels determined to be protective of human health.

#### State Implementation Plans

The federal CAA requires all states to submit a State Implementation Plan (SIP) to the U.S. EPA for areas that are out of compliance with the NAAQS. This Statewide SIP is often referred to as an "infrastructure" SIP. Infrastructure SIPs are administrative in nature and describe the authorities, resources, and programs a state has in place to implement, maintain, and enforce the federal standards. It does not contain any proposals for emission control measures.

These area attainment SIPs are comprehensive plans that describe how an out-of-compliance area will attain and maintain the particular NAAQS standard(s) it does not conform to. Once an out-of-compliance area has attained the standard in question, a maintenance SIP is required for a period of time to ensure the area will continue to meet the standard.

SIPs are not single documents. They are a compilation of new and previously submitted plans, programs (such as monitoring, modeling, permitting, etc.), district rules, state regulations, and federal controls. Many of California's SIPs rely on the same core set of control strategies, including emission standards for cars and heavy trucks, fuel regulations, and limits on emissions from consumer products. State law makes CARB the lead agency for all purposes related to SIPs. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB forwards those revisions to the EPA for approval and publication in the Federal Register.

**Table 4.2-2,** State and Federal Criteria Pollutant Standards, compares the State and federal criteria pollutant standards while also discussing the relevant effects of pollutants on persons.

A :	<b>Concentration / Ave</b>	raging Time				
Alf	California	Federal Primary				
Pollutant	Standards	Standards	Most Relevant Effects			
Ozone (O₃)	0.09 ppm / 1-hour 0.07 ppm / 8-hour	0.070 ppm, / 8- hour	<ul> <li>(a) Pulmonary function decrements and localized lung edema in humans and animals; (b) Risk to public health implied by alterations in pulmonary morphology and host defense in animals; (c) Increased mortality risk; (d) Risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (e) Vegetation damage; and (f) Property damage.</li> </ul>			
Carbon Monoxide (CO)	20.0 ppm / 1-hour 9.0 ppm / 8-hour	35.0 ppm / 1-hour 9.0 ppm / 8-hour	<ul> <li>(a) Aggravation of angina pectoris and other aspects of coronary heart disease;</li> <li>(b) Decreased exercise tolerance in persons with peripheral vascular disease and lung disease;</li> <li>(c) Impairment of central nervous system functions; and</li> <li>(d) Possible increased risk to fetuses.</li> </ul>			
Nitrogen Dioxide (NO2)	0.18 ppm / 1-hour 0.030 ppm / annual	100 ppb / 1-hour 0.053 ppm / annual	<ul> <li>(a) Potential to aggravate chronic respiratory disease ar respiratory symptoms in sensitive groups;</li> <li>(b) Risk to public health implied by pulmonary and extra-pulmona biochemical and cellular changes and pulmonary structural changes; and (c) Contribution to atmospheri discoloration.</li> </ul>			
Sulfur Dioxide (SO <sub>2</sub> )	0.25 ppm / 1-hour 0.04 ppm / 24-hour	75 ppb / 1-hour 0.14 ppm/annual	(a) Bronchoconstriction accompanied by symptoms which may include wheezing, shortness of breath and chest tightness, during exercise or physical activity in persons with asthma.			
Suspended Particulate Matter (PM10)	50 μg/m <sup>3</sup> / 24-hour 20 μg/m <sup>3</sup> / annual	150 μg/m³ / 24- hour	(a) Exacerbation of symptoms in sensitive patients with respiratory or cardiovascular disease; (b) Declines in pulmonary function growth in shidron; and (c) Increased			
Suspended Particulate Matter (PM2.5)	spended rticulate Matter $12 \ \mu g/m^3 / annual$ $35 \ \mu g/m^3 / 24$ -hour $12 \ \mu g/m^3 / annual$		risk of premature death from heart or lung diseases in elderly.			
Sulfates	ulfates 25 μg/m³ / 24-hour No Federal Standards		<ul> <li>(a) Decrease in ventilatory function; (b) Aggravation of asthmatic symptoms; (c) Aggravation of cardio-pulmonar disease; (d) Vegetation damage; (e) Degradation of visibility; and (f) Property damage.</li> </ul>			
Lead	1.5 μg/m³ / 30-day	0.15 μg/m <sup>3</sup> /3- month rolling	(a) Learning disabilities; and (b) Impairment of blood formation and nerve conduction.			
Visibility Reducing Particles	Extinction coefficient of 0.23 per kilometer - visibility of ten miles or more due to particles when relative humidity is less than 70 percent.	No Federal Standards	Visibility impairment on days when relative humidity is less than 70 percent.			

Air	Concentration / Ave	raging Time	
All	California	Federal Primary	
Fondtant	Standards Standards		Most Relevant Effects
Source: CARB, A	mbient Air Quality Standard	ls, May 14, 2016. Available	online at <a href="http://www.arb.ca.gov/research/aaqs/aaqs2.pdf">http://www.arb.ca.gov/research/aaqs/aaqs2.pdf</a> . See Appendix
С.			

#### Local

#### Mojave Desert Air Quality Management District

#### MDAQMD Federal 8-hour Ozone Attainment Plan (Western Mojave Desert Nonattainment Area)

On April 15, 2004, the U.S. EPA designated the Western Mojave Desert nonattainment area as nonattainment for the 8-hour  $O_3$  NAAQS pursuant to the provisions of the federal CAA. The Western Mojave Desert  $O_3$  Nonattainment Area includes the southwestern portion of San Bernardino County and the Antelope Valley portion of Los Angeles County. As a result, the MDAQMD prepared its  $O_3$  Attainment Plan in June 2008 to: (1) demonstrate that the MDAQMD will meet the primary required Federal  $O_3$  planning milestones, attainment of the 8-hour  $O_3$  NAAQS by 2019 (revised June 2021); (2) present the progress the MDAQMD will make towards meeting all required  $O_3$  planning milestones; and (3) discuss the newest 0.075 part per million 8-hour  $O_3$  NAAQS, preparatory to an expected non-attainment designation for the new NAAQS. In February 2017, MDAQMD updated the 2008  $O_3$  Attainment Plan and adopted the MDAQMD Federal 75 parts per billion (ppb)  $O_3$  Attainment Plan (Western Mojave Desert Nonattainment Plan) to satisfy federal CAA requirements that the MDAQMD develop a plan to attain the 0.075 ppm 8-hour  $O_3$  NAAQS.

#### Final Mojave Desert Planning Area Federal Particulate Matter 10 (PM10) Attainment Plan

On January 20, 1994, the U.S. EPA re-designated a significant portion of the Mojave Desert as a nonattainment area with respect to the NAAQS for PM10. This nonattainment area covers a vast geographical region, including the urban areas of Victor Valley and Barstow, the Morongo Basin, along with the rural desert environs reaching to the Nevada and Arizona state lines. The PM10 Attainment Plan was prepared in July 1995 to provide a complete description and submittal to USEPA of the PM10 attainment planning elements which the MDAQMD will implement to bring the nonattainment area into compliance with federal law. Most importantly, the PM10 Attainment Plan serves as a planning tool for reducing PM10 pollution. The PM10 Attainment Plan sets forth an air quality improvement program for the region which will be implemented by both the public and private sector of the community.

#### MDAQMD Rules

The MDAQMD has adopted rules to limit air emissions. Many of these rules were put in place as required by measures specified in various SIPs and air quality management plans. The MDAQMD rules that are applicable to the Project are:

- Rule 401 Visible Emissions. This rule prohibits discharges of air contaminants or other material, which are as dark or darker in shade as that designated No. 1 on the Ringelmann Chart.
- Rule 402 Nuisance. This rule prohibits the discharge of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public.

Rule 403 – Fugitive Dust. The purpose of this rule is to control the amount of PM entrained in the • atmosphere from manmade sources of fugitive dust. The rule prohibits emissions of fugitive dust from any active operation, open storage pile, or disturbed surface area to be visible beyond the emission source's property line.

#### San Bernardino County Countywide Plan/Policy Plan

The County's Countywide Plan, adopted on October 27, 2020, serves as a new set of plans and tools for the County's unincorporated communities and complements the Countywide vision. The Renewable Energy and Conservation Element was adopted separately from the Countywide Plan on August 8, 2017 and amended on February 2019. The Policy Plan is a component of the Countywide Plan that is an update and expansion of the County's General Plan for the unincorporated areas. The following goals and policies are applicable to the Project:

#### Natural Resources Element

Goal NR-1	Air quality that promotes health and wellness of residents in San Bernardino County through improvements in locally generated emission.			
Policy NR-1.1	Compact and transit-oriented development countywide are promoted and types and locations of development in unincorporated areas is regulated to minimize vehicle miles traveled and greenhouse gas emissions.			
Policy NR-1.2	The improvement of indoor air quality through the California Building and Energy codes and through the provision of public health programs and services is promoted.			
Policy NR-1.3	Coordination with air quality management districts and other local agencies should occur to monitor and reduce major pollutants affecting the county at the emission source.			
Policy NR-1.6	Coordination with air quality management districts on the requirements of dust control plans, revegetation, and soil compaction to prevent fugitive dust emissions should occur.			
Policy NR-1.8	The use of low-emission construction vehicles and equipment to improve air quality and reduce emissions is encouraged.			
Policy NR-1.9	We use the CALGreen Code to meet energy efficiency standards for new buildings and encourage the upgrading of existing buildings to incorporate design elements, building materials, and fixtures that improve environmental sustainability.			
Renowable Energy and Concernation Element				

Renewable Energy and Conservation Element

- RE Policy-2.1 Support solar energy generation, solar water heating, wind energy and bioenergy systems that are consistent with the orientation, siting and environmental compatibility polices of the General Plan.
- RE Policy-2.2 Promote use of energy storage technologies that are appropriate for the character of the proposed location.

- **RE Policy 4.1** Apply standards to the design, siting, and operation of all renewable energy facilities that protect the environment, including sensitive biological resources, air quality, water supply and quality, cultural, archaeological, paleontological and scenic resources.
- **RE Policy 4.3.1** Define measures required to minimize ground disturbance, soil erosion, flooding, and blowing of sand and dust, with appropriate enforcements mechanisms in the Development Code.

Hazards Element

**Policy HZ-3.3** Air quality management district's establish community emissions reduction plans for unincorporated environmental justice focus areas that should be considered in these areas. With particular emphasis in addressing the types of pollution identified in the Hazard Element table.

#### San Bernardino County Development Code

Development Code Section 83.01.040 (pertaining to construction air quality) will apply to the construction phase of the Project. Relevant provisions of the section are listed below.

- (c) Diesel Exhaust Emissions Control Measures. The following emissions control measures shall apply to all discretionary land use projects approved by the County on or after January 15, 2009:
  - (1) On-Road Diesel Vehicles. On-road diesel vehicles are regulated by the State of California Air Resources Board.
  - (2) Off-Road Diesel Vehicle/Equipment Operations. All business establishments and contractors that use off-road diesel vehicle/equipment as part of their normal business operations shall adhere to the following measures during their operations in order to reduce diesel particulate matter emissions from diesel-fueled engines:
    - (A) Off-road vehicles/equipment shall not be left idling on site for periods in excess of five minutes. The idling limit does not apply to:
      - (I) Idling when queuing;
      - (II) Idling to verify that the vehicle is in safe operating condition;
      - (III) Idling for testing, servicing, repairing or diagnostic purposes;
      - (IV) Idling necessary to accomplish work for which the vehicle was designed (such as operating a crane);
      - (V) Idling required to bring the machine system to operating temperature; and
      - (VI) Idling necessary to ensure safe operation of the vehicle.

- (B) Use reformulated ultra-low-sulfur diesel fuel in equipment and use equipment certified by the U.S. Environmental Protection Agency (EPA) or that pre-dates EPA regulations.
- (C) Maintain engines in good working order to reduce emissions.
- (D) Signs shall be posted requiring vehicle drivers to turn off engines when parked.
- (E) Any requirements or standards subsequently adopted by the South Coast Air Quality Management District, the Mojave Desert Air Quality Management District or the California Air Resources Board.
- (F) Provide temporary traffic control during all phases of construction.
- (G) On-site electrical power connections shall be provided for electric construction tools to eliminate the need for diesel-powered electric generators, where feasible.
- (H) Maintain construction equipment engines in good working order to reduce emissions. The developer shall have each contractor certify that all construction equipment is properly serviced and maintained in good operating condition.
- (I) Contractors shall use ultra-low sulfur diesel fuel for stationary construction equipment as required by Air Quality Management District (AQMD) Rules 431.1 and 431.2 to reduce the release of undesirable emissions.
- (J) Substitute electric and gasoline-powered equipment for diesel-powered equipment, where feasible.

Development Code Section 84.29.035 (Required Findings for Approval of a Commercial Solar Energy Facility) includes the following requirements relevant to fugitive dust emissions:

- (c) The finding of fact shall include the following:
  - (20) The proposed commercial solar energy generation facility will be designed, constructed, and operated so as to minimize dust generation, including provision of sufficient watering of excavated or graded soil during construction to prevent excessive dust. Watering will occur at a minimum of three (3) times daily on disturbed soil areas with active operations, unless dust is otherwise controlled by rainfall or use of a dust palliative, or other approved dust control measure.
  - (21) All clearing, grading, earth moving, and excavation activities will cease during period of winds greater than 20 miles per hour (mph), averaged over one hour, or when dust plumes of 20 percent or greater opacity impact public roads, occupied structures, or neighboring property, and in conformance with AQMD regulations.

- (22) For sites where the boundary of a new commercial solar energy generation facility will be located within one-quarter mile of a primary residential structure, an adequate wind barrier will be provided to reduce potentially blowing dust in the direction of the residence during construction and ongoing operation of the commercial solar energy generation facility.
- (23) Any unpaved roads and access ways will be treated and maintained with a dust palliative or graveled or treated by another approved dust control Chapter 83.09 of the Development Code.
- (24) On-site vehicle speed will be limited to 15 mph.

# 4.2.4 Thresholds of Significance

#### California Environmental Quality Act (CEQA) Thresholds

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to air quality if it would:

- **Threshold (a):** Conflict with or obstruct implementation of the applicable air quality plan.
- **Threshold (b):** Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under an applicable Federal or State ambient air quality standard.
- **Threshold (c):** Expose sensitive receptors to substantial pollutant concentrations.
- **Threshold (d):** Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

As identified in Section 6.5: Effects Found Not to Be Significant, impacts related to Threshold (d) were determined to be less than significant and do not require further analysis in the Draft EIR.

#### MDAQMD Air Quality Thresholds

Under CEQA, the MDAQMD is an expert commenting agency on air quality and related matters within its jurisdiction or impacting on its jurisdiction. Under the federal CAA, the MDAQMD has adopted federal attainment plans for  $O_3$  and PM10. The MDAQMD has dedicated assets to reviewing projects to ensure that they will not: (1) cause or contribute to any new violation of any air quality standard; (2) increase the frequency or severity of any existing violation of any air quality standard; or (3) delay timely attainment of any air quality standard or any required interim emission reductions or other milestones of any federal attainment plan.

According to the MDAQMD's CEQA and Federal Conformity Guideline, a project is significant if it triggers or exceed the most appropriate evaluation criteria:

- Generates total emissions (direct and indirect) in excess of the thresholds given in **Table 4.2-3**, *MDAQMD Significant Emission Thresholds*.
- Generates a violation of any ambient air quality standard when added to the local background.
- Does not conform with the applicable attainment or maintenance plan(s).

 Exposes sensitive receptors to substantial pollution concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1.

Criteria Pollutant	Annual Threshold (tons)	Daily Threshold (pounds)					
Carbon Monoxide (CO)	100	548					
Oxides of Nitrogen (NO <sub>x</sub> )	25	137					
Volatile Organic Compounds (VOC)	25	137					
Oxides of Sulfur (SO <sub>x</sub> )	25	137					
Particulate Matter (PM <sub>10</sub> )	15	82					
Fine Particulate Matter (PM <sub>2.5</sub> )	12	65					
Hydrogen Sulfide (H <sub>2</sub> S)	10	54					
Lead (Pb)	0.6	3					

#### Table 4.2-3: MDAQMD Significant Emission Thresholds

# 4.2.5 Methodology

To determine air quality related impacts, the Project was modeled using CalEEMod Version 2020.4.0. The CalEEMod program uses the EMFAC2017 computer program to calculate the emission rates specific for the Mojave Desert portion of San Bernardino County for employee, vendor and haul truck vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy equipment operations. EMFAC2017 and OFFROAD2011 are computer programs generated by CARB that calculates composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour.

The Project characteristics in the CalEEMod model were set to the Project location in the Mojave Desert portion of the County, a Climate Zone of 10, utility company of Southern California Edison, and an opening year of 2024 was utilized in this analysis. In addition, the EMFAC off-model adjustment factors for gasoline light duty vehicle to account for the SAFE Vehicle rule was selected in the CalEEMod model run.

# 4.2.6 **Project Impact Analysis**

# Threshold (a): Would the Project conflict with or obstruct implementation of the applicable air quality plan?

The Project Site is located within the Mojave Desert Air Basin and is regulated by the MDAQMD. The MDAQMD PM10 Attainment Plan and  $O_3$  Attainment Plan established under the Western Mojave Desert AQMPs set forth a comprehensive set of programs that will lead the Basin into compliance with Federal and State air quality standards. The control measures and related emission reduction estimates within the MDAQMD PM10 Attainment Plan and  $O_3$  Attainment Plan are based upon emissions projections for a future development scenario derived from land use, population, and employment characteristics defined in consultation with local governments. Accordingly, conformance with these attainment plans is determined by:

- Demonstrating Project consistency with local land use plans and/or population projections (Criterion 1);
- Demonstrating Project compliance with applicable MDAQMD Rules and Regulations (Criterion 2); and

• Demonstrating Project implementation will not increase the frequency or severity of a violation in the Federal or State ambient air quality standards (**Criterion 3**).

#### Criterion 1: Consistency with local land use plans and/or population projections.

Growth projections included in the AQMPs form the basis for the projections of air pollutant emissions and are based on general plan land use designations and the Southern California Association of Governments (SCAG) 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (2020-2045 RTP/SCS, or Connect SoCal) demographics forecasts. While SCAG has recently adopted Connect SoCal, the MDAQMD has not released an updated AQMP that utilizes information from Connect SoCal. As such, this consistency analysis is based off the 2016-2040 RTP/SCS. The population, housing, and employment forecasts within the 2016-2040 RTP/SCS are based on local general plans as well as input from local governments, such as the County. The MDAQMD has incorporated these same demographic growth forecasts for various socioeconomic categories (e.g., population, housing, employment) into the AQMPs.

The San Bernardino Land Use Service Zoning Maps is the local law that regulates various aspects of how land can be used. The Project Site is designated and zoned as Resource Conservation (RC). Renewable energy generation facilities are an allowable land use within the RC land use zoning district.

The County's unincorporated area population estimate as of January 1, 2021, was 1,871,997 persons, and the County's total area population estimate as of January 1, 2021, was 2,175,909 persons. SCAG growth forecasts in the 2016-2040 RTP/SCS estimate the County's population to reach 2,731,000 persons by 2040, representing a total increase of 620,000 persons between 2015 and 2040. Additionally, SCAG growth forecasts in the 2016-2040 RTP/SCS estimate the County's employment to reach 1,028,000 jobs by 2040, representing a total increase of 299,000 jobs between 2012 and 2040.

The Project would include neither a residential component that would increase local population growth, nor a commercial component that would substantially increase employment. Construction of the Project would not result in residential, commercial, or growth-inducing development that would result in a substantial increase in growth-related emissions. In addition, because of the presence of locally available construction workers, and because of the relatively short duration of construction (approximately 14 months), workers are not expected to relocate to the area with their families. Up to 12 full-time and/or part-time staff would be required for operation, inspection, security, maintenance, and system monitoring purposes. Due to the limited number of employees required for the full-time operation of the Project, the Project would not cause the SCAG growth forecast to be exceeded. As the MDAQMD has incorporated these forecasts on population, housing, and employment into the AQMPs, the Project would be consistent with the AQMPs. Impacts would be less than significant.

#### Criterion 2: Compliance with applicable MDAQMD Rules and Regulations.

The Project would be required to comply with all applicable MDAQMD Rules and Regulations. This would include MDAQMD Rules 401, 402, and 403. MDAQMD Rule 403 requires periodic watering for short-term stabilization of disturbed surface area to minimize visible fugitive dust (PM10) emissions, covering loaded haul vehicles, and reduction of non-essential earth moving activities during higher wind conditions. The Project would comply with applicable MDAQMD rules, enforced through Project Conditions of Approval, and not conflict with applicable MDAQMD Rules and Regulations. Therefore, impacts would be less than significant.

# Criterion 3: Demonstrating Project implementation will not increase the frequency or severity of a violation in the Federal or State ambient air quality standards.

Analysis of the Project's potential to result in more frequent or severe violations of the CAAQS and NAAQS can be satisfied by comparing the Project emissions to MDAQMD thresholds. Based on the air quality modeling analysis contained in Appendix C, short-term construction air emissions would not result in significant impacts based on MDAQMD thresholds of significance. The ongoing operation of the Project would generate air pollutant emissions that would be less than the applicable MDAQMD thresholds of significance.

Therefore, the Project would not delay the Basin's attainment goals for O<sub>3</sub>, PM10, and PM2.5, and would not result in an increase in the frequency or severity of existing air quality violations. As such, the Project would not cause or contribute to localized air quality violations or delay the attainment of air quality standard or interim emissions reductions specified in the AQMPs. Project construction and operation would remain under existing air quality thresholds set by MDAQMD as depicted in **Table 4.2-3**, as detailed below under Threshold (b). As such, the Project would not result in an increase in the frequency or severity of existing air quality violations, or cause or contribute to localized air quality violations, or delay attainment of air quality standards. Impacts would be less than significant.

# Conclusion for Threshold (a)

Criterion 1 required the Project to be consistent with local land use plans and/or population projections based off the 2016-2040 RTP/SCS. Criterion 2 required the Project to comply with all applicable MDAQMD Rules and Regulations. Criterion 3 required demonstration that the Project implementation will not increase the frequency or severity of a violation in the Federal or State ambient air quality standards. As discussed above, the Project would be consistent with the three criteria and would comply with MDAQMD Rules and Regulations, not induce population growth, and would not cause or contribute to localized air quality violations or delay the attainment of air quality standard or interim emissions reductions specified in the AQMPs. Therefore, the Project would not conflict with or obstruct implementation of the applicable air quality plan. Impacts would be less than significant.

# Threshold (b): Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard?

The Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable Federal or State ambient air quality standard. The Project involves the construction and operation of a large-scale, solar photovoltaic (PV) electricity generation and energy storage facility. Construction of the Project would result in the temporary addition of pollutants to the local air basin caused by on- and off-site sources. Operation of the Project would generate emissions from mobile sources, including vehicle trips from employees commuting to work and maintenance vehicles.

# **Construction Emissions**

Project construction would result in the temporary addition of pollutants to the local air basin caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). Construction emissions can

vary substantially from day to day, depending on the level of activity, the specific type of operation, and for dust, the prevailing weather conditions. Construction activities for the Project are anticipated to start in the first guarter of 2023 and would last approximately 14 months. Annual construction-related criteria pollutant emissions from the Project are shown below in Table 4.2-4, Construction-Related Air Pollutant *Emissions*, and the CalEEMod modeling results are provided in Appendix C.

Pollutant Emissions <sup>1</sup> (Pounds per Day)						
Construction Year	VOC	NOx	СО	SO <sub>2</sub>	PM10	PM2.5
2023	2.68	16.00	22.74	<0.05	3.56	4.22
2024	0.60	2.90	5.59	<0.05	0.27	0.38
MDAMD Thresholds	137	137	548	137	82	65
Exceeds Thresholds?	No	No	No	No	No	No
Notes: <sup>1</sup> Construction based on adherence to fugitive dust suppression requirements from MDAQMD Rule 403.2.						

#### Table 4.2-4: Construction-Related Air Pollutant Emissions

Source: See Appendix C

Table 4.2-4 shows that none of the analyzed criteria pollutants emissions would exceed the MDAQMD thresholds during Project construction. Therefore, Project construction would not result in a significant increase in elevated health risks to nearby sensitive receptors and impacts would be less than significant.

#### **Operation Emissions**

The Project involves development of a 160-MW solar PV energy facility and Project substation with an energy storage system. Operation of the Project would generate VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM10, and PM2.5 emissions from mobile sources, including vehicle trips from maintenance vehicles. Pollutant emissions associated with long-term operations were quantified using CalEEMod modeling software. Because the Project would have no major stationary emissions sources and a relatively low number of employees traveling to the facility site, operation of the Project would result in substantially lower emissions than Project construction. The annual operations-related criteria pollutant emissions from the Project are shown below in Table 4.2-5, Operations-Related Air Pollutant Emissions, and the CalEEMod modeling results are provided in Appendix C.

	Pollutant Emissions (Pounds per Day)					
Emissions Source	VOC	NOx	CO	SO <sub>2</sub>	PM10	PM2.5
Area Sources <sup>1</sup>	22.96	<0.05	<0.05	0.00	<0.05	<0.05
Energy Sources <sup>2</sup>	0.00	0.00	0.00	0.00	0.00	0.00
Mobile Sources <sup>3</sup>	0.05	0.11	0.66	<0.05	0.16	<0.05
Total Emissions	23.01	0.11	0.66	<0.05	0.16	<0.05
MDAMD Thresholds	137	137	548	137	82	65
Exceeds Thresholds?	No	No	No	No	No	No

#### Table 4.2-5: Operations-Related Air Pollutant Emissions

Notes:

<sup>1</sup> Area sources consist of emissions from consumer products, hearths, architectural coatings, and landscaping equipment.

<sup>2</sup> Energy usage consist of emissions from natural gas usage (no natural gas would be utilized by the Project).

<sup>3</sup> Mobile sources consist of emissions from vehicles and road dust.

Source: See Appendix C.

Table 4.2-5 shows that none of the analyzed criteria pollutants emissions would exceed the MDAQMD emissions thresholds during operation of the Project. Therefore, Project operations would not result in a

significant increase in elevated health risks to nearby sensitive receptors and impacts would be less than significant.

# Air Quality Health Impacts

Adverse health effects induced by criteria air pollutants are dependent on many factors. These factors include but are not limited to concentration in the atmosphere, local meteorology, age and gender of the exposed person, and several other factors. Additionally, O<sub>3</sub> precursors (VOCs and NO<sub>x</sub>) affect air quality on a regional scale and health impacts from these O<sub>3</sub> precursors would be the product of emissions generated by numerous sources throughout the region. Furthermore, existing models have limited sensitivity to small changes in criteria air pollutant concentrations, so, translating criteria air pollutants generated by an individual project to specific health effects with many factors or additional days of nonattainment would be difficult and produce what are effectively meaningless results. The NAAQS and CAAQS are set to be protective of human health, however, which means that the Project's has less than significant increases in regional air pollution from criteria air pollutants would have less than significant impacts on human health.

The South Coast Air Quality Management District (SCAQMD) has stated that it would be extremely difficult if not impossible to quantify the health impacts of criteria pollutants from individual projects for various reasons including modeling limitations as well as the fact that certain emissions are the result of chemical interactions and it is impossible to determine exactly where in the atmosphere precursor air pollutants will interact.<sup>6</sup> As discussed in Appendix C, the SCAQMD acknowledges that health effects quantification from O<sub>3</sub> is correlated with the increases in ambient level of O<sub>3</sub> in the air (concentration) that an individual breathes. SCAQMD has written that it would take a large amount of additional emissions to cause a modeled increase in ambient O<sub>3</sub> levels over the entire region. The SCAQMD states that a reduction of 432 tons (864,000 pounds) per day of NO<sub>x</sub> and a reduction of 187 tons (374,000 pounds) per day of VOCs would reduce O<sub>3</sub> levels at highest monitored site by only 9 ppb, this is based on their own modeling in the SCAQMD's 2012 AQMP. As such, the SCAQMD concluded that it is not currently possible to accurately quantify O<sub>3</sub>-related health impacts cause by NO<sub>x</sub> and VOC emissions from relatively small projects (defined as projects with less than a regional scope) due to photochemistry and regional model limitations.

Because the Project would not exceed MDAQMD's health-protective significance thresholds for criteria air pollutants during construction or operational emissions, the Project would have a less than significant impact for air quality human health impacts as well and no modeling of health impacts was performed.

# Cumulative Short-Term Construction Impacts

In regard to the Project's construction-based air quality emissions and the Basin-wide conditions, the MDAQMD has developed strategies to reduce criteria air pollutant emissions as outlined in the District's AQMP and federal CAA mandates. The Project would comply with the MDAQMD's Rule 403 and would implement all applicable MDAQMD rules to reduce construction air emissions. Rule 403 requires that fugitive dust to be controlled with the best available control measures to reduce dust emissions into the atmosphere such that it is not visible beyond the property line of the Project. Examples of best available control measures for dust include the application of water and soil stabilizers, covering of loads, avoiding track out onto public roads, and the minimization of non-essential grading during high wind conditions.

<sup>&</sup>lt;sup>6</sup> While the SCAQMD has a working group to develop a methodology to quantify the health impacts of criteria pollutants, other air districts, including the MDAQMD, have not provided any guidance on evaluating human health impacts.

Additionally, the Project would follow the AQMP's emissions control measures which would help the Project further reduce emissions from construction activities. As noted above in **Table 4.2-4**, the Project's short-term construction emissions would not exceed the MDAQMD thresholds, and impacts would be less than significant. The Project would not contribute to a cumulatively considerable air quality impact for nonattainment criteria pollutants in the basin.

#### Cumulative Long-Term Operational Impacts

As noted previously, the Project would not result in any significant long-term operational air quality impacts. Adherence to MDAQMD rules and regulations would alleviate potential impacts related to cumulative conditions on a project-by-project basis. The Project would not contribute a cumulatively considerable net increase of any nonattainment criteria air pollutant. Therefore, no cumulative operational impacts associated with implementation of the Project would result.

#### Threshold (c): Would the Project expose sensitive receptors to substantial pollutant concentrations?

The MDAQMD considers residences, schools, daycare centers, playgrounds, and medical facilities to be sensitive receptor land uses. The nearest sensitive receptor to the Project Site is an unoccupied home located approximately 740 feet west of the Project Site, and the nearest occupied residence is over 1,600 feet north of the Project Site. According to the MDAQMD Guidelines, the following project types proposed for sites within the specified distance to an existing or planned (zoned) sensitive receptor land use must be evaluated to determine if it exposes sensitive receptors to substantial pollutant concentrations:

- Any industrial project within 1,000 feet;
- A distribution center (40 or more trucks per day) within 1,000 feet;
- A major transportation project (50,000 or more vehicles per day) within 1,000 feet;
- A dry cleaner using perchloroethylene within 500 feet;
- A gasoline dispensing facility within 300 feet.

#### Construction

Project construction is anticipated to be completed over a period of approximately 14 months. Project construction activities are anticipated to involve the operation of diesel-powered equipment, which would emit DPM. In 1998, the CARB identified diesel exhaust as a TAC. Cancer health risks associated with exposure to diesel exhaust typically are associated with chronic exposure, in which a 30-year exposure period often is assumed. Project construction would comply with the California Code of Regulations (CCR), Title 13, Section 2449(d)(3) and 2485, which minimizes the idling time of construction equipment either by shutting it off when not in use or by reducing the time of idling to nor more than five minutes. Due to the distance between the Project Site and the closest sensitive receptors, potential health impacts on sensitive receptors associated with exposure to DPM from Project construction would be less than significant.

Furthermore, construction activities are expected to occur well below the 30-year exposure period used in health risk assessments, would adhere to MDAQMD Rule 403 and the San Bernardino County Code 84.29.035, which would further reduce emissions from certain pollutants related to construction exhaust. Implementation of these regulations would reduce the amount of DPM emissions from Project construction. Additionally, emissions would be short-term and intermittent in nature, and, therefore, would not generate TAC emissions at high enough exposure concentrations to represent a health hazard. Therefore, construction of the Project would not result in a significant increase in elevated health risks to nearby sensitive receptors and impacts would be less than significant.

#### Operations

The Project would consist of development of a PV solar energy facility, which would emit nominal air emissions. Typical O&M activities during Project operations include, but are not limited to: Facility monitoring; administration and reporting; remote operations of inverters, BESS system and other equipment; site security and management; communication protocol; repair and maintenance of solar facilities, electrical transmission lines, and other Project facilities; and periodic panel washing. As such, the Project would not be considered one of the above land uses. None of these activities would result in the generation of excessive TAC emissions, or associated health risks. Therefore, operation of the Project is not anticipated to result in an elevated cancer risk to nearby sensitive receptors, and impacts would be less than significant.

#### Carbon Monoxide Hotspots

CO emissions are a function of vehicle idling time, meteorological conditions, and traffic flow. Under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthy levels. CO is primarily a product of incomplete combustion of gaseous or liquid fuels, meaning tailpipe emissions are worse in stop-and-go congested traffic as compared to free-flowing conditions. The Project does not include any stationary sources of combustion, and results in a net increase of only 40 vehicle trips per year. The Project is not located near existing CO hotspots and the trips associated with the project are insufficient to create a CO hotspot.

With such low existing ambient levels of CO, low levels of CO emissions from the Project, and lack of congested roadways around the Project Site, the Project would not cause CO hotspots in excess of applicable NAAQS or CAAQS standards at any intersections within the County, and impacts would be less that significant.

#### Valley Fever

During ground disturbing activities associated Project construction, the potential exists that such activities could disturb dust particles and, if present, CI spores, which could then be released into the air and potentially be inhaled by on-site workers and nearby sensitive receptors; exposure to these spores can cause Valley Fever. Due to the distance of the nearest sensitive receptor, the Project is not anticipated to exacerbate the risk of existing sensitive receptors to contract Valley Fever. Although CEQA does not require the analysis of a Project's impacts on its construction workers, such analysis is included for informational purposes. The best approaches to reducing construction workers' risk of contracting Valley Fever are awareness and dust reduction because dust can be an indicator that increased efforts are needed to control other airborne particulates (including Cl spores, if any). Therefore, the Project is required to control dust through compliance with applicable MDAQMD rules as well as provide training and awareness of Valley Fever via Mitigation Measure AQ-1. Compliance with MDAQMD rules reduce dust. For example, Rule 401 prohibits a person from discharging into the atmosphere any air emission contaminant for a period or periods aggregating more than three minutes in any single hour emissions that is: (a) as dark or darker in shade as that designated as No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or (b) of such opacity as to obscure an observer's view to a degree equal to or greater than 20 percent opacity. Rule 402 prohibits the discharge of air contaminants in

quantities that would cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health or safety of any such persons or the public. **Mitigation Measure AQ-1** would further ensure worker safety through education and ensuring implementation of required OHSA safety measures.

With the implementation of **Mitigation Measure AQ-1**, the potential for the release of CI spores, if present, and the potential for workers or other sensitive receptors to be exposed to CI would be reduced to less than significant levels.

# 4.2.7 Cumulative Impacts

Chapter 3.0, Environmental Setting, of this Draft EIR provides a list of related projects that would have the potential to be considered in a cumulative context with the Project's incremental contribution. These projects are summarized in **Table 3-2**, *Related Projects*, and shown in **Figure 3-1**, *Related Projects in the Planning Area* Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and the MDAQMD develops and implements plans for future attainment of ambient air quality standards account for planned growth. Based on these considerations, project-level thresholds of significance for criteria pollutants are also the thresholds to determine whether the Project's individual emissions would have a cumulative contribution of a project that adds emissions to the Basin, which has significant cumulative impacts related to O<sub>3</sub> and PM. As noted above, the Project would not make cumulatively considerable contribution to existing significant cumulative impacts. There are no other projects proposed within a ten-mile radius of the Project that would be under construction at the same time as the Project and could combine with Project construction emissions to create a new significant cumulative impact.

Regarding compliance with MDAQMD's air quality plans, the Project would not result in a significant impact. Each cumulative project would need to comply with the land uses set forth by the San Bernardino Land Use Service Maps or otherwise submit a Conditional Use Permit(s) if their proposed land use is not consistent with the Plan. Additionally, each cumulative project would need to ensure that any residential components or potential for additional employment as a result of the specific project would operate consistent with the SCAG's population forecasts, which are considered within the AQMP.

Furthermore, each cumulative project would need to conform to all applicable MDAQMD rules and regulations. As these impacts are primarily considered on a project-by-project basis, a combination of impacts with other cumulative projects that could potentially lead to cumulative impacts is not expected. The Project is within the growth anticipated by the MDAQMD's air quality plans and would not exceed any threshold. Therefore, the Project's contribution to cumulative impacts associated with consistency with local land use plans and population projections and forecasts would be less than cumulatively considerable.

Considering net increases to criteria air pollutants for which the Basin are in nonattainment for, the Project would not result in significant impacts. Currently, the Basin is in federal nonattainment for  $O_3$  and PM10 and in state nonattainment for  $O_3$ , PM10, and PM2.5. Each cumulative project would need to complete an analysis of construction and operational impacts regarding air emissions as part of CEQA. These analyses would find potential pollutants for which the potential project would be in excess of MDAQMD thresholds and would determine if the implementation of mitigation measures would be necessary for construction or operational processes. As such, each cumulative project would investigate

their own impacts to the Basin and implement mitigation measures as appropriate. As the above analysis shows, the Project's contribution to cumulative impacts associated with the Basin's attainment goals would not be cumulatively considerable.

Regarding impacts to sensitive receptors, the Project would not result in a significant impact. Sensitive receptors are defined as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants. Potential pollutants that may impact sensitive receptors include DPM, CO, and other TACs. As part of the air quality analyses that each potential cumulative project would need to complete, these TACs would be investigated, and mitigation measures applied as applicable to reduce impacts. A sensitive receptor's exposure to potential pollutants and their health impacts is hard to measure against individual projects and more closely related to regional concentrations. Additionally, for an individual project to greatly impact the regional concentrations of pollutants, the project would likely need to exceed MDAQMD significance thresholds by a significant margin, which is unlikely upon the implementation of individual project mitigation measures, as applicable. It is not anticipated that cumulative impacts would be significant. Therefore, the Project's contribution to cumulative impacts associated with impacts to sensitive receptors would be less than cumulatively considerable.

# 4.2.8 Mitigation Measures

In order to minimize potential impacts to air quality, the following mitigation measure would be implemented:

- AQ-1 Prior to ground disturbance activities, the Applicant must prepare a Valley Fever Management Plan (VFMP), including a Valley Fever training program, to be implemented during construction to address potential risks from CI by minimizing the potential for unsafe dust exposure during construction. The VFMP will identify best management practices including:
  - Development of an educational Valley Fever Training Handout for distribution to onsite workers, which should include general information about the causes, symptoms, and treatment instructions regarding Valley Fever, including contact information of local health departments and clinics knowledgeable about Valley Fever.
  - Conducting Valley Fever training sessions to educate all Project construction workers
    regarding appropriate dust management and safety procedures, symptoms of Valley
    Fever, testing, and treatment options. This training must be completed by all workers
    and visitors (expected to be on-site for more than 2 days) prior to participating in or
    working in proximity to any ground disturbing activities. Signed documentation of
    successful completion of the training is to be kept on-site for the duration of
    construction.
  - Developing a job-specific Job Hazard Analyses (JHA), in accordance with Cal/OSHA regulations, to analyze the risk of worker exposure to dust, and maintain and manage safety supplies identified by the JHA.
  - Provide and/or require, if determined to be needed based on the applicable JHA, OSHA-approved half-face respirators equipped with a minimum N-95 protection factor for use during worker collocation with surface disturbance activities, following

completion of medical evaluations, fit-testing, and proper training on use of respirators.

# 4.2.9 Level of Significance After Mitigation

With implementation of **Mitigation Measure AQ-1**, the Project's impacts on air quality would be reduced to less than significant.

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# 4.3 **BIOLOGICAL RESOURCES**

# 4.3.1 Introduction

This section evaluates the existing biological resource setting and the potential effects caused by implementation of the Project, including impacts on sensitive and special-status species and habitat. The following discussion also evaluates the Project's consistency with applicable goals and policies, identifies and analyzes environmental impacts, and requires measures to reduce or avoid adverse impacts anticipated from implementation of the Project, as applicable. Information contained in this section is derived from the Biological Resources Report, dated December 2020, prepared by Chambers Group, Inc. (Appendix D).

# 4.3.2 Existing Environmental Setting

#### **Regional Setting**

San Bernardino County (County) is divided into three subregions for planning purposes: Valley, Mountain, and Desert. These regions have distinctive climates and geography, which in turn produce differing biological environments. The Project Site is in the East Desert Region. Rainfall in the general Project vicinity was well above normal for the 2019/2020 rain season. According to the Western Regional Climate Center (WRCC), the annual historic precipitation average for the general area is approximately 3.68 inches.<sup>1</sup> The rainfall season total between May 2019 and April 2020 was approximately 6.23 inches, approximately 40 percent higher than the normal annual rainfall for the area.<sup>2</sup> Based on data provided by the WRCC, the average annual low temperature for the general area is 55 degrees Fahrenheit and the average annual high temperature for the general area is 88.3 degrees Fahrenheit. The average annual low temperature for the same period was approximately 93.3 degrees Fahrenheit; approximately 5 degrees warmer than the annual historic average. Slight differences in the locations of the weather stations referenced may account for some temperature and rainfall variation.

# **Project Site**

Disturbed areas of the Project show evidence of previous agricultural use on the Project Site. These areas are mainly concentrated along the western edge of the Project Site along U.S. Route 95 and in central portions of the Project Site immediately west and east of Citrus Ranch Road. Several small, developed areas are also present throughout the Project Site that include man-made structures, basins (grow crop circles for wind avoidance), abandoned structures and barbed-wire fences, cattle watering holes (concrete), or paved areas. Evidence of continual Project Site. disturbance, such as off-highway vehicle (OHV) activity and illegal dumping is also present throughout the Project Site. Extensive OHV tracks traversing the Project Site can be seen on aerial imagery and were observed on the ground during the survey efforts.

<sup>&</sup>lt;sup>1</sup> Western Regional Climate Center, *Western Regional Climate Center. Historic Data. Climate Summaries,* 2022. Available at <u>https://wrcc.dri.edu/summary/Climsmsca.html</u>. Accessed August 4, 2022.

<sup>&</sup>lt;sup>2</sup> Weather Underground, Weather Underground. KCAPARKE4 weather station, 2022. Available at <u>https://www.wunderground.com/dashboard/pws/KAZPARKE22?cm\_ven=localwx\_pwsdash</u>. Accessed August 4, 2022.

# 4.3.3 Regulatory Setting

#### Federal

#### **Clean Water Act**

The purpose of the Clean Water Act (CWA) is to "restore and maintain the chemical, physical, and biological integrity of the nation's waters." Section 404 of the CWA prohibits the discharge of fill material into waters of the United States without a permit from the U.S. Army Corps of Engineers (USACE). The definition of waters of the United States includes rivers, streams, estuaries, the territorial seas, ponds, lakes, and wetlands. Wetlands are defined as those areas "that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 Code of Federal Regulations [CFR] § 328.3(b)). The goals and standards of the CWA are enforced through permit provisions. The U.S. Environmental Protection Agency (U.S. EPA) also has authority over wetlands and may override a USACE permit.

When a project may create impacts for wetlands, the project requires a permit or a waiver. Substantial impacts to wetlands may require an Individual Permit. Projects that only minimally affect wetlands may meet the conditions of one of the existing Nationwide Permits. A Water Quality Certification or waiver pursuant to Section 401 of the CWA is required from the Regional Water Quality Control Board (RWQCB) for Section 404 permit actions.

#### Navigable Waters Protection Rule

The Clean Water Rule: Definition of Waters of the United States—published in the Federal Register (FR) on June 29, 2015, and effective August 28, 2015—was enacted to ensure that waters protected under the CWA are more precisely defined and predictably determined. On October 22, 2019, the U.S. EPA and USACE published a rule to repeal the 2015 Clean Water Rule: Definition of "Waters of the United States" (2015 Rule) and to restore the regulatory text that existed prior to the 2015 Rule; the final rule became effective on December 23, 2019. On April 21, 2020, the U.S. EPA and USACE published the Navigable Waters Protection Rule in the Federal Register to finalize a revised definition of "Waters of the United States" under the CWA. The rule streamlines the definition of Waters of the United States so that it includes four categories of jurisdictional waters, provides clear exclusions for many water features, and defines terms in the regulatory text that have never been defined before. The Rule regulates the nation's navigable waters and the core tributary systems that provide perennial or intermittent flow into them. This final rule became effective on June 22, 2020.

The term "waters of the United States" means:

- (1) the territorial seas, and waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including waters which are subject to the ebb and flow of the tide
- (2) tributaries, defined as a river, stream, or similar naturally occurring surface water channel that contributes surface water flow to a water identified in paragraph (a)(1) of this section in a typical year and is perennial or intermittent in a typical year
- (3) lakes and ponds, and impoundments of jurisdictional waters

(4) adjacent wetlands

The final rule specifically clarifies that waters of the United States do not include the following:

- groundwater, including groundwater drained through subsurface drainage systems
- ephemeral features that flow only in direct response to precipitation, including ephemeral streams, swales, gullies, rills, and pools
- diffuse stormwater runoff and directional sheet flow over upland
- ditches that are not traditional navigable waters, tributaries, or that are not constructed in adjacent wetlands, subject to certain limitations
- prior converted cropland
- artificially irrigated areas that would revert to upland if artificial irrigation ceases
- artificial lakes and ponds that are not jurisdictional impoundments and that are constructed or excavated in upland or non-jurisdictional waters
- water-filled depressions constructed or excavated in upland or in non-jurisdictional waters incidental to mining or construction activity, and pits excavated in upland or in non-jurisdictional waters for the purpose of obtaining fill, sand, or gravel
- stormwater control features constructed or excavated in upland or in non-jurisdictional waters to convey, treat, infiltrate, or store stormwater runoff
- groundwater recharge, water reuse, and wastewater recycling structures constructed or excavated in upland or in non-jurisdictional waters
- waste treatment systems

#### Federal Endangered Species Act of 1973

As defined within the Federal Endangered Species Act (FESA) of 1973, an endangered species is any animal or plant listed by regulation as being in danger of extinction throughout all or a significant portion of its geographical range. A threatened species is any animal or plant that is likely to become endangered within the foreseeable future throughout all or a significant portion of its geographical range. Without a special permit, Federal law prohibits the "take" of any individuals or habitat of Federally-listed species. Under Section 9 of the FESA, take is defined as "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such conduct." The term "harm" has been clarified to include "any act which actually kills or injures fish or wildlife, and emphasizes that such acts may include significant habitat modification or degradation that significantly impairs essential behavioral patterns of fish or wildlife." Enforcement of FESA is administered by the U.S. Fish and Wildlife Service (USFWS).

Under the definition used by the FESA, "Critical Habitat" refers to specific areas within the geographical range of a species that were occupied at the time it was listed that contain the physical or biological features that are essential to the survival and eventual recovery of that species and that may require special management considerations or protection, regardless of whether the species is still extant in the area. Areas that were not known to be occupied at the time a species was listed can also be designated as Critical Habitat if they contain one or more of the physical or biological features that are essential to that species' conservation and if the occupied areas are inadequate to ensure the species' recovery. If a project may result in take or adverse modification to a species' designated Critical Habitat and the project

has a Federal nexus, the project proponent may be required to provide suitable mitigation. Projects with a Federal nexus may include projects that occur on Federal lands, require Federal permits (e.g., CWA Section 404 permit), or receive any Federal oversight or funding. If there is a Federal nexus, then the Federal agency that is responsible for providing funds or permits would be required to consult with the USFWS under the FESA.

Whenever Federal agencies authorize, fund, or carry out actions that may adversely modify or destroy Critical Habitat, they must consult with USFWS under Section 7 of the FESA. The designation of Critical Habitat does not affect private landowners, unless a project they are proposing uses Federal funds, or requires Federal authorization or permits (i.e., funding from the Federal Highway Administration or a permit from the USACE).

When a private project that has no federal funding and for which no federal action is required may affect a listed species, the private applicant may receive authorization for incidental take of species listed under the FESA. In these situations, Section 10 of the FESA provides for issuance of incidental take permits (ITPs) to private entities with the development of a Habitat Conservation Plan (HCP). An ITP allows take of the species that is incidental to another authorized activity.

#### Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act (16 United States Code [USC] 668-668c) was enacted in 1940 and amended several times since, prohibits anyone without a permit issued by the Secretary of the Interior from "taking" bald (*Haliaeetus leucocephalus*) or golden eagles (*Aquila chrysaetos*), including their parts (i.e., feathers, skeletal remains, etc.) nests or eggs. The Act defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb." To disturb means to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, (1) injury to an eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior. (Federal Register, volume 72, page 31132; 50 CFR 22.3).

#### Migratory Bird Treaty Act, as Amended

The Migratory Bird Treaty Act (MBTA) of 1918, as amended (16 United States Code [USC] 703-711), provides legal protection for almost all bird species occurring in, migrating through, or spending a portion of their life cycle in North America by restricting the killing, taking, collecting, and selling or purchasing of native bird species or their parts, nests, or eggs. The USFWS determined it was illegal under the MBTA to directly kill or destroy an active nest (nest with eggs or nestlings) of nearly any bird species (with the exception of non-native species) through the MBTA Reform Act of 2004. Certain game bird species are allowed to be hunted for specific periods determined by federal and state governments. The intent of the MBTA is to eliminate any commercial market for migratory birds, feathers, or bird parts, especially for eagles and other birds of prey. As authorized by the MBTA, the USFWS issues permits to qualified applicants for the following types of activities:

- falconry
- raptor propagation
- scientific collecting
- special purposes, such as rehabilitation, education, migratory game bird propagation, and salvage
• take of depredating birds, taxidermy, and waterfowl sale and disposal

The regulations governing migratory bird permits can be found in Title 50, Part 13 (General Permit Procedures) and Part 21 (Migratory Bird Permits) of the CFR.

#### Desert Renewable Energy Conservation Plan

In response to Executive Order S-14-08, which established a target of obtaining 33 percent of the State's electricity from renewable resources by 2020, the California Energy Commission (CEC), California Department of Fish and Wildlife (CDFW), USFWS, and the Bureau of Land Management (BLM) have developed the Desert Renewable Energy Conservation Plan (DRECP). The plan area encompasses the Mojave and Colorado Desert regions in California, including all or a portion of the following counties: Kern, Los Angeles, San Bernardino, Inyo, Riverside, Imperial, and San Diego. The DRECP is a joint State and Federal Natural Community Conservation Plan and part of one or more Habitat Conservation Plans (HCPs) with the goal of facilitating the development and minimizing the environmental impact of the development of renewable energy resources within the desert regions of California. The plan consists of multiple components targeting varying aspects of development, including but not limited to the following: General Conservation Plan (GCP) and a Natural Community Conservation Plan (NCCP). The overall goal is to conserve biological, physical, cultural, social, and scenic resources within the plan area. As this applies to biological resources, the plan intends to achieve six primary objectives: (1) Locate renewable energy development to disturbed lands or those with low biological conflict; (2) Identify plan-wide biological goals and objectives; (3) identify a DRECP Plan-Wide Reserve Design Envelope for each alternative; (4) contribute to the long-term conservation and management of covered species and natural communities; (5) preserve, restore, and enhance natural communities and ecosystems; and (6) identify and incorporate climate change adaption research and management objectives and/or policies.

In 2016, the BLM issued a Record of Decision, approving a LUPA that represents the conclusion of Phase I of the DRECP, which identifies priority areas for renewable energy development while setting aside millions of acres for conservation and outdoor recreation. The BLM plan complements the non-federal land component of the DRECP (Phase II), which is ongoing, led by the CEC.

#### State

#### California Endangered Species Act

The California Endangered Species Act (CESA; California Fish and Game Code [CFGC] Sections 2050-2116) parallels the FESA. As a responsible agency, the CDFW has regulatory authority over species listed as endangered and threatened. The State Legislature encourages cooperative and simultaneous findings between state and federal agencies. Consultation with CDFW is required for projects with the potential to affect listed or candidate species. CDFW would determine whether a reasonable alternative would be required for the conservation of the species. CESA prohibits the "take" of these species unless an ITP is granted. Under CFGC Section 2081 (ITP), CDFW can authorize the "take" of a listed species (with exception to fully protected species) if the "take" of the listed species is incidental to carrying out an otherwise lawful project that has been approved under the California Environmental Quality Act (CEQA). Section 2080.1 allows for "take" once an applicant obtains a federal ITP which can be approved (Consistency Determination letter) within 30 days by the CDFW Director. If the federal Incidental Take Statement is determined not to be consistent with CESA, then application for a State ITP (2081) is required.

The CFGC outlines protection for fully protected species of mammals, birds, reptiles, amphibians, and fish. Species that are "fully protected" may not be taken or possessed at any time. CDFW has designated certain species native to California as Species of Special Concern to "focus attention on wildlife at conservation risk by the Department, other State, Local and Federal governmental entities, regulators, land managers, planners, consulting biologists, and others; stimulate research on poorly known species; achieve conservation and recovery of wildlife before they meet CESA criteria for listing as threatened or endangered."

#### State Fully Protected Species

The State of California designated species as Fully Protected (FP) prior to the creation of CESA and FESA. Lists of FP species were initially developed to provide protection to species that were rare or faced possible extinction/extirpation. Most FP species have since been state listed as threatened or endangered species. Under CFGC Section 4700, FP species may not be taken or possessed at any time.

In September 2011, the California Legislature sent the Governor legislation authorizing CDFW to permit the incidental take of 36 FP species pursuant to a NCCP approved by CDFW (Senate Bill [SB] 618 [Wolk]). The legislation gives FP species the same level of protection as provided under the NCCP Act for endangered and threatened species (CFGC Section 2835). The NCCP Act, enacted in the 1990s, authorizes the incidental take of species "whose conservation and management" is provided for in a conservation plan approved by CDFW.

#### California Fish and Game Code

The CDFW administers the CFGC. There are particular sections of the CFGC that are applicable to natural resource management.

#### Sections 1600-1602

Pursuant to Division 2, Chapter 6, Sections 1600-1602 of the CFGC, CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake, which supports fish or wildlife. CDFW defines a "stream" (including creeks and rivers) as "a body of water that flows at least periodically or intermittently through a bed or channel having banks and supports fish or other aquatic life. This includes watercourses having surface or subsurface flow that supports or has supported riparian vegetation." CDFW's definition of "lake" includes "natural lakes or man-made reservoirs." CDFW limits of jurisdiction include the maximum extent of the uppermost bank-to-bank distance or riparian vegetation dripline.

#### Sections 3503, 3503.5, 3505, 3511, 3513, 3800, and 4154

CFGC Section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird. CFGC Section 3800 affords protection to all nongame birds, which are all birds occurring naturally in California that are not resident game birds, migratory game birds, or fully protected birds. CFGC Section 3505 protects birds in the Falconiformes order (birds of prey), 3511 protects fully protected bird species, and 3513 upholds the MBTA by prohibiting any take or possession of birds that are designated by the MBTA as migratory nongame birds except as allowed by federal rules and regulations promulgated pursuant to the MBTA. CFGC Section 4154 protects all fully protected mammals and nongame mammals.

# Species of Special Concern

Species of special concern are broadly defined as animals not listed under the CESA, but nonetheless of concern to the CDFW, because they are declining at a rate that could result in listing, or historically occurred in low numbers and known threats to their persistence currently exist. This designation focuses research and management attention on these species to avert their need for listing by stimulating collection of additional information on the biology, distribution, and status of poorly known at-risk species and by identifying recovery efforts that might ultimately be required. Species of special concern are included in the Special Animals List tracked in the California Natural Diversity Database (CNDDB).

# Nongame Mammals

CFGC Section 4150 protects nongame mammals, defined as any naturally-occurring mammal in California that is not a game mammal, fully protected mammal, or fur-bearing mammal. Nongame mammals, which includes bats and bat roosts, may not be taken or possessed except as provided by the CFGC or in accordance with applicable regulations.

# Native Plant Protection Act

CFGC Sections 1900–1913, the Native Plant Protection Act, were developed to preserve, protect, and enhance Rare and Endangered plants in the State of California. The act requires all State agencies to use their authority to carry out programs to conserve Endangered and Rare native plants. Provisions of the Native Plant Protection Act prohibit the taking of listed plants from the wild and require notification of the CDFW at least ten days in advance of any change in land use which would adversely impact listed plants. This allows the CDFW to salvage listed plant species that would otherwise be destroyed.

# California Desert Native Plants Act

Division 23 of the California Food and Agriculture Code consists of the California Desert Native Plants Act (CDNPA). The CDNPA was developed to protect certain species of California desert native plants from unlawful harvesting on both public and privately-owned lands. The CDNPA only applies within the boundaries of Imperial, Inyo, Kern, Los Angeles, Mono, Riverside, San Bernardino, and San Diego Counties. Within these counties, the CDNPA prohibits the harvest, transport, sale, or possession of specific native desert plants unless a person has a valid permit or wood receipt, and the required tags and seals. The appropriate permits, tags and seals must be obtained from the sheriff or commissioner of the county where collecting will occur, and the county will charge a fee.

# California Environmental Quality Act

CEQA (Public Resources Code [PRC] Sections 21000-21177) provides for the protection of the environment within the State by establishing State policy to prevent significant, avoidable damage to the environment through the use of alternatives or mitigation measures for projects. It applies to actions directly undertaken, financed, or permitted by State lead agencies. If a project is determined to be subject to CEQA, the lead agency will be required to conduct an Initial Study (IS). If the IS determines that the project may have significant impacts on the environment, the lead agency will subsequently be required to write an Environmental Impact Report (EIR). A finding of non-significant effects will require either a Negative Declaration or a Mitigated Negative Declaration instead of an EIR. Section 15380 of the CEQA Guidelines independently defines "endangered" species as those whose survival and reproduction in the wild are in immediate jeopardy, while "rare" species are defined as those who are in such low numbers that they could become endangered if their environment worsens

#### Clean Water Act Section 401

Under CWA Section 401, the local RWQCB must certify that actions receiving authorization under CWA Section 404 also meet state water quality standards. The RWQCB requires projects to avoid impacts to wetlands if feasible and requires that projects do not result in a net loss of wetland acreage or a net loss of wetland function and values. Compensatory mitigation for impacts to wetlands and/or waters of the State is required.

#### Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act of 1966 (Porter-Cologne; California Water Code Sections 13000-13999.10) mandates that activities that may affect waters of the State shall be regulated to attain the highest quality. The State Water Resources Control Board (SWRCB) and the local RWQCB are the relevant permitting agencies. RWQCB provides regulations for a "non-degradation policy" that are especially protective of areas with high water quality. Porter-Cologne reserves the right for the State of California to regulate activities that could affect the quantity and/or quality of surface and/or ground waters, including isolated wetlands, within the state. Waters of the State include isolated waters that are no longer regulated by USACE. If the project is proposed to discharge into waters of the State, a Waste Discharge Report (WDR), or a waiver to WDRs, must be filed before beginning discharge.

#### Local

#### San Bernardino County Countywide Plan/Policy Plan

The County adopted the *Countywide Plan/Policy Plan* (Policy Plan) in October 2020. The Policy Plan provides an update of the County's General Plan addressing physical, social and economic issues facing the unincorporated portions of the County. The Policy Plan also provides an expansion of the County's General Plan to address supportive service for adults and children, healthcare service, public safety, and other regional county services provided to both incorporated and unincorporated areas.

Relevant goals and policies of the San Bernardino County Policy Plan are as follows:

#### Natural Resources Element

- **Policy NR-5.7** There shall be compliance with state and federal regulations regarding protected species of animals and vegetation through the development review, entitlement, and environmental clearance processes.
- **Policy NR 5.8** The use of non-invasive plant species with new development is required and the management of existing invasive plant species that degrade ecological function is encouraged.

#### Renewable Energy and Conservation Element

Policy RE 4.1Apply standards to the design, siting, and operation of all renewable energy facilities<br/>that protect the environment, including sensitive biological resources, air quality,

water supply and quality, cultural, archaeological, paleontological and scenic resources.

- **Policy RE 4.1.2** Renewable energy development applications shall be subject to thorough environmental review, including consideration of water consumption, before being permitted.
- **Policy RE 4.7** Renewable Energy project site selection and site design shall be guided by the following priorities relative to habitat conservation and mitigation:
  - Avoid sensitive habitat, including wildlife corridors, during site selection and project design.
  - Where necessary and feasible, conduct mitigation on-site.
  - When on-site habitat mitigation is not possible or adequate, establish mitigation off-site in an area designated for habitat conservation.

#### San Bernardino County Development Code

Development Code Section 84.29.040 focuses on solar energy development standards and includes regulations and guidelines for the notification and permitting processes pertaining to solar facilities, and is, therefore, applicable to the Project Site since it is a proposed solar facility.

Development Code Section 84.29.070 focuses on decommissioning requirements for wind and solar energy projects. This section of the Code includes regulations and guidelines for site closure activities to meet federal, state, and local requirements for the rehabilitation and revegetation of wind and solar energy project sites after decommissioning.

Development Code Section 88.01.060 is a subset of the Plant Protection and Management Code, which provides regulations for the removal or harvesting of specified desert native plants in order to preserve and protect the plants and to provide for the conservation and wise use of desert resources. The provisions are intended to augment and coordinate with the Desert Native Plants Act (Food and Agricultural Code Section 80001 et seq.) and the efforts of the State Department of Food and Agriculture to implement and enforce the Act.

The following desert native plants or any part of them, except the fruit, shall not be removed except under a Tree or Plant Removal Permit in compliance with Section 88.01.050 (Tree or Plant Removal Permits). In all cases the botanical names shall govern the interpretation of this Section. (1) The following desert native plants with stems 2 inches or greater in diameter or 6 feet or greater in height: *Dalea spinosa* (smoke tree), all species of the genus *Prosopis* (mesquites). (2) All species of the family Agavaceae (century plants, nolinas, yuccas). (3) Creosote Rings, 10 feet or greater in diameter. (4) All Joshua trees. (5) Any part of any of the following species, whether living or dead: *Olneya tesota* (desert ironwood), all species of the genus *Prosopis* (mesquites), all species of the genus *Cercidium* (synonym: *Parkinsonia*, palo verde).

# 4.3.4 Thresholds of Significance

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to biological resources if it would:

- **Threshold (a):** Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service;
- **Threshold (b):** Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service;
- **Threshold (c):** Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means;
- **Threshold (d):** Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites;
- **Threshold (e):** Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance; or
- **Threshold (f):** Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or approved local, regional, or state HCP.

As identified in Section 6.5: Effects Found Not to Be Significant, related to Threshold (c) and Threshold (f), the Project was determined to have no impact and do not require further analysis in the Draft EIR.

# 4.3.5 Methodology

Chambers Group conducted a literature review; reconnaissance-level survey; jurisdictional waters delineation; and desert tortoise, burrowing owl, and focused plant surveys for the Project (see Appendix D of this Draft EIR). The Survey Area for the reconnaissance-level survey, vegetation mapping, and focused plant survey is the same as the Project Site. The Survey Area for the desert tortoise and burrowing owl surveys includes the Project Site plus a 500-foot buffer as depicted in Figure 10 within the Biological Resources Report. The methods used by Chambers Group are outlined below. The following geographies were evaluated:

- Literature search for special status species occurrences: 5-mile buffer around the Project Site
- Reconnaissance-level survey: Project Site boundary
- Vegetation mapping: Project Site boundary
- Focused plant survey: Project Site boundary
- Desert tortoise and burrowing owl survey: Project Site boundary plus a 500-foot buffer around the Project location for burrowing owl

#### Literature Review

Prior to performing the reconnaissance-level survey; jurisdictional waters delineation; and desert tortoise, burrowing owl, and rare plant focused surveys, existing documentation relevant to the Project Site was

reviewed. The most recent records of the CNDDB managed by the CDFW<sup>3</sup>, the USFWS database – Carlsbad office<sup>4</sup>, the National Wetlands Inventory<sup>5</sup>, the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey<sup>6</sup>, and the California Native Plant Society's Electronic Inventory (CNPSEI) of Rare and Endangered Vascular Plants of California<sup>7</sup> were reviewed for the following quadrangles containing and surrounding the Project Site: *Vidal Junction, Parker NW, Vidal*, and *Parker SW* California United States Geological Survey (USGS) 7.5-minute quadrangles. These databases contain records of reported occurrences of federally and state listed endangered or threatened species, proposed endangered or threatened species, California Species of Special Concern (SSC), or otherwise sensitive species or habitats that may occur within or in the immediate vicinity of the Project.

#### **Jurisdictional Waters**

An assessment of jurisdictional waters regulated by the USACE, RWQCB, and CDFW was conducted to determine the potential of jurisdictional waters to be found within the Project Site. A small, unmanned aircraft system (sUAS) was deployed within the Project Site for aerial imagery and analysis. Chambers Group analyzed the aerial imagery recorded from the sUAS in collaboration with the field data for a comprehensive map of all existing drainage features.

Climate and flow frequency were considered when observing watermarks and drift lines. For the purpose of determining hydrologic connectivity to a Traditional Navigable Water (TNW), aerial photos, NWI maps, and USGS quadrangle maps were reviewed; and all features were inspected in the field on and off site for true connectivity. Potential USACE/RWQCB/CDFW jurisdictional areas identified during the literature search and aerial image analysis were field checked for the presence of definable channels, soils, wetland vegetation, riparian habitat, and hydrology. Transects were walked across the width of the Project Site perpendicular to the flow of the existing streams to obtain sufficient quantity of data points to facilitate Global Information System (GIS) digitization of jurisdictional features. Data was recorded for the presence or absence of fluvial activity, boundaries of geomorphic units, changes in plant species composition between different geomorphic units, soil types and textures, and mapping the watercourse and watercourse boundaries. Each of these drainages were examined in the field, and the channel banks were examined for signs of flow, terraces, drift deposits and other indicators that would determine the location of the Ordinary High-Water Mark (OHWM). Average channel width and depth, substrate types, and vegetation along the banks were recorded. Data were collected using a combination of records entered

<sup>&</sup>lt;sup>3</sup> California Department of Fish and Wildlife, *California Natural Diversity Database (CNDDB)*. *RareFind Version* 5.2.14. Database Query for the Vidal Junction, Parker NW, Vidal, and Parker SW California USGS 7.5 minute quadrangles. Wildlife and Habitat Data Analysis Branch, 2020.

<sup>&</sup>lt;sup>4</sup> United States Fish and Wildlife Service, *Threatened & Endangered Species Active Critical Habitat Report*. Available at https://www.arcgis.com/home/webmap/viewer.html?url=https://services.arcgis.com/QVENGdaPbd4LUkLV/Arc

<sup>&</sup>lt;u>GIS/rest/services/USFWS\_Critical\_Habitat/FeatureServer&source=sd</u>. Accessed on August 4, 2022.

<sup>&</sup>lt;sup>5</sup> United States Fish and Wildlife Service, *National Wetland Inventory (NWI)*, 2022. Available at <a href="https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/">https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/</a>. Accessed on August 4, 2022.

<sup>&</sup>lt;sup>6</sup> United States Department of Agriculture, Websoil Survey Database, 2022. Available at <u>https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx</u>. Accessed on August 4, 2022.

<sup>&</sup>lt;sup>7</sup> California Native Plant Society, Electronic Inventory, Inventory of Rare and Endangered Plants (online edition). Rare Plant Scientific Advisory Committee, California Native Plant Society, Sacramento, California. Available at <u>http://www.cnps.org/inventory for the Vidal Junction, Parker NW, Vidal, and Parker SW California USGS 7.5</u> <u>minute quadrangles</u>. Accessed on August 4, 2022.

into ESRI ArcGIS Collector<sup>©</sup> and hand-written field notes. Jurisdictional waters and riparian communities were mapped at a minimum scale of 1:6000, often down to 1:3000.

Potential wetland habitats were evaluated using the methodology set forth in the 1987 Corps of Engineers Wetlands Delineation Manual<sup>8</sup> and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (version 2.0).<sup>9</sup> The methods set forth in the 1987 Wetland Manual and the 2008 Arid West Supplement involve the delineation of wetlands based on the presence of three wetland parameters: a predominance of hydrophytic vegetation, wetland hydrology, and hydric soils. For more information, these wetland parameters are discussed in greater detail in Appendix D.

#### **Biological Reconnaissance-Level Survey**

Chambers Group biologists conducted a reconnaissance-level survey within the Project Site to identify the potential for occurrence of sensitive species, vegetation communities, and habitats that could support sensitive wildlife species. The survey was conducted on foot throughout the Project Site on April 23, 2020. All plant and wildlife species and vegetation communities observed within the Project Site were recorded.

#### Vegetation Mapping

All plant species and vegetation communities observed within the Project Site during the reconnaissancelevel survey were recorded. Vegetation communities within the Project Site were then identified, qualitatively described, and mapped onto an aerial photograph. The vegetation communities are described following *A Manual of California Vegetation, Second Edition*.<sup>10</sup> Plant nomenclature follows that of *The Jepson Manual, Second Edition*.<sup>11</sup>

#### Wildlife

All wildlife and wildlife signs observed and/or detected, including tracks, scat, carcasses, burrows, excavations, and vocalizations, during both surveys were recorded. Additional survey time was spent in those habitats most likely to be utilized by wildlife (trees were surveyed with binoculars for bird nests or avian activity) or in habitats with the potential to support federally and/or state listed or otherwise sensitive species. Notes were made on the general habitat types, species observed, and the conditions of the Project Site.

#### Focused Plant Survey

A focused plant survey was conducted within the Project Site by Chambers Group biologists to identify and record occurrences of any of the seven rare plants identified in literature searches as having potential to occur on or within five miles of the Project Site. The survey was conducted in accordance with the

<sup>&</sup>lt;sup>8</sup> U.S. Army Corps of Engineers, Corps of Engineers *Wetlands Delineation Manual. U.S. Army Corps of Engineers Waterways Experiment Station. Vicksburg, MS*, 1987.

<sup>&</sup>lt;sup>9</sup> U.S. Army Corps of Engineers, *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0), ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-08-28. Vicksburg, MS: U.S. Army Engineer Research and Development Center, 2008.* 

<sup>&</sup>lt;sup>10</sup> Sawyer, J.O., Jr., T. Keeler-Wolf, and J.M. Evens, A Manual of California Vegetation, Second Edition. California Native Plant Society, Sacramento, California, 2009.

<sup>&</sup>lt;sup>11</sup> Baldwin, B.G., D.H. Goldman, D.J. Keil, R. Patterson, and T.J. Rosatti, and D.H. Wilken, *The Jepson Manual: Vascular Plants of California, Second Edition.* University of California Press, Berkeley, CA, 2012.

CDFW's *Guidelines for Assessing the Effects of Proposed Projects on Rare, Threatened and Endangered Plants and Natural Communities* over a five-day period from May 4 through May 8, 2020. The surveys occured within the blooming period for four of the seven sensitive plant species identified as having potential to occur on or within the Project vicinity including chaparral sand-verbena, Alverson's foxtail cactus, glandular ditaxis, Abrams' spurge, winged cryptantha, Torrey's box-thorn, and Hall's tetracoccus. The survey was conducted outside the bloom period for three of the seven species, glandular ditaxis (typically blooms October through March), Abrams' spurge (typically blooms September through November), and winged cryptantha (typically blooms from March through April); for these species, surveyors focused on identifying vegetative characteristics and any floral remains. Although winged cryptantha blooms from March through April, this species, even if not in bloom, would have been conspicuous in early May. Furthermore, no *Johnstonella* or unidentified *Cryptantha* species were observed during the focused plant survey, and therefore this species is considered unlikely to occur Project Site.

#### Desert Tortoise and Burrowing Owl Survey

Chambers Group biologists conducted a desert tortoise survey and a burrowing owl survey over a fiveday period from May 11, 2020, through May 15, 2020, in accordance with the USFWS Mojave Desert Tortoise Pre-project Survey Protocol and the CDFW Staff Report on Burrowing Owl Mitigation. These surveys were required to determine if desert tortoises and burrowing owls are present within the Project Site and, if present, estimate the amount of incidental take of these species.

The desert tortoise survey and one round of burrowing owl surveys were conducted concurrently within the approximately 1,090-acre Project Site. The burrowing owl survey included a 500-foot survey buffer around the Project Site (where feasible), in accordance with CDFW protocol. Buffer areas not accessible for surveys on foot included a private landowner (APN: 0647-091-08) along the northern boundary of the Project, and Colorado River Indian Reservation Lands (APN: 0647-061-07) located at the eastern boundary of the Project. For further details regarding methods, please refer to Appendix D.

# 4.3.6 **Project Impact Analysis**

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

#### **Special Status Plant Species**

A database search resulted in a list of seven sensitive plant species documented to occur within five miles of the Project Site and within the quadrangles containing and surrounding the Project Site. Of the seven special status plant species evaluated for their potential occurrence in the Project Site, no species had a High potential to occur, two species had a Moderate potential to occur, four species had a Low potential to occur, and one species was considered to be Absent from the Project Site. None of the four species evaluated as having potential to occur in the Project Site were observed during the survey and are therefore considered Absent on the Project. One additional species, Utah vine milkweed (*Funastrum utahense*), was not identified in the literature searches but was observed in the original Project Site during the focused plant survey. Nonetheless, after Project design revisions, it is now located within the Survey Area 500-foot buffer and is therefore considered Absent from the Project Site. Although no special status plant species were identified within the Project Site boundaries, there is potential for those species to occur near the Project Site boundaries. **Mitigation Measure BIO-1** would be implemented to ensure no impacts would occur to sensitive species potentially occurring near the Project Site boundaries. **Mitigation Measure BIO-1** requires a biological monitor be present prior to initiation of ground disturbing activities to demark limit of disturbance boundaries with flagging and/or staking to clearly define the work area. With the implementation of **Mitigation Measure BIO-1**, the potential for special status plant species to be impacted directly and indirectly by the Project would be reduced to less than significant levels.

#### Special Status Wildlife Species

A database search resulted in a list of 21 sensitive wildlife species documented to occur within the quadrangles containing and surrounding the Project Site. After a literature review, reconnaissance-level survey, and desert tortoise and burrowing owl focused surveys, it was determined that nine sensitive wildlife species are considered Absent, six species have a Low potential to occur, and seven species have a Moderate potential to occur in the Project Site. The following six sensitive wildlife species have a Low potential for occurrence in the Project Site due to low quality and disturbed suitable habitat:

- Arizona Bell's vireo (*Vireo bellii arizonae*)
- Bendire's thrasher (*Toxostoma bendirei*)
- northern cardinal (*Cardinalis cardinalis*)
- prairie falcon (*Falco mexicanus*)
- southwestern willow flycatcher (*Empidonax traillii extimus*)
- yellow-breasted chat (*Icteria virens*)

The following seven sensitive wildlife species have a Moderate potential for occurrence in the Project Site due to marginal habitat and environmental and food source conditions:

- American badger (*Taxidea taxus*)
- burrowing owl (*Athene cunicularia*)
- Costa's hummingbird (*Calypte costae*)
- crissal thrasher (*Toxostoma crissale*)
- Le Conte's thrasher (*Toxostoma lecontei*)
- Gila woodpecker (*Melanerpes uropygialis*)
- yellow warbler

Suitable habitat for Costa's hummingbird, crissal thrasher, Le Conte's thrasher and Gila woodpecker exits within the Project Site primarily within the Blue Palo Verde – Ironwood Woodland habitat found along Drainage 4 and the major wash within Drainage System 5. No observations or historic records have been documented for Costa's hummingbird or Le Conte's thrasher within 5 miles of the Project Site, but these species did show as a potential for the Project vicinity based on the USFWS Environmental Conservation of Concern database. Therefore, Costa's hummingbird or Le Conte's thrasher could occur within the drainage areas that will be avoided by this Project. Both of these drainages will be avoided based on current Project design and in accordance with mitigation measure BIO-2. While habitat exists within the Project Site for American badger, crissal thrasher, and Gila woodpecker, historic records of these species

are all more than 30 years old and none of these species were observed during the survey efforts. Therefore, these species are not anticipated to occur within the Project Site.

One species, yellow warbler (*Setophaga petechia*), was not identified in the literature searches but was observed foraging between the Project Site boundary and the 500-foot buffer. Therefore, this species is considered to have a Moderate potential to occur on the Project for forage (no suitable nesting habitat). Three additional species, loggerhead shrike (*Lanius ludovicianus*), osprey (*Pandion haliaetus*), and black-tailed gnatcatcher (*Polioptila melanura*), were not identified in the literature searches but were observed or detected in the Project Site during survey efforts. Osprey was migrating through the area (no nesting habitat or foraging opportunities on the Project Site), while loggerhead shrike and black-tailed gnatcatcher have nesting and foraging habitat on the Project Site. Therefore, the latter two species are considered Present on the Project Site. There is potential for these wildlife species to be impacted. In order to avoid impacts to potential nesting birds on-site, vegetation trimming/crushing would take place outside the general bird breeding season (February 15 to September 15), to the maximum extent practical, in accordance with **Mitigation Measure BIO-4**. If avoidance is not possible, **Mitigation Measure BIO-4** requires that a qualified biologist conduct a nesting bird survey prior to ground-disturbing activities to comply with CDFW Code 3503 and 3503.5 and the MBTA. With implementation of **Mitigation Measure BIO-4**, impacts would be reduced to less than significant.

#### Desert Tortoise and Burrowing Owl

No live desert tortoises, active desert tortoise burrows, or other desert tortoise sign were identified in the Survey Area during desert tortoise surveys. One potential desert tortoise burrow was observed in the survey buffer near the southwest corner of the Project Site. However, the burrow was filled with spider webs and appeared to have been in disuse for some time. No live burrowing owls were observed within the Survey Area during the burrowing owl surveys. Nonetheless, three potential burrows with sign including cough pellets and/or whitewash were observed within the Project Site and one potential burrowing owl cough pellet was identified within the 500-foot survey buffer near the northeastern portion of the Project Site. With potential burrows and sign observed within the Project Site, impacts would be potentially significant. Implementation of **Mitigation Measure BIO-6**, which requires a Take Avoidance Survey to be conducted for burrowing owl prior to construction, would reduce impacts to less than significant.

#### Desert Kit Fox

Five active desert kit fox burrow/burrow complexes were identified within the Project Site during the desert tortoise and burrowing owl surveys. These burrows had fresh sign including scat, tracks, and/or prey remains on the burrow apron or in the vicinity, indicating recent use. Although desert kit fox is a non-sensitive species, these burrows/burrow complexes would be investigated during pre-construction surveys with a fiber-optic scope and/or wildlife motion cameras to determine their status. Due to the potential for active desert kit foxes to be identified within the Project Site, impacts would be potentially significant.

In accordance with **Mitigation Measure BIO-7**, if any burrow/burrow complex is determined to house desert kit fox, and the burrow/burrow complex is unavoidable, exclusionary devices (i.e., one-way doors) would be fitted on the active burrow openings. Once the burrow is confirmed vacant, the burrow would be carefully excavated to prevent re-entry/re-use of the burrow. These exclusion/excavation activities would only occur during the non-breeding season (July 2 to January 15). If construction occurs during the

breeding season, any active burrow/burrow complex that is unavoidable would be provided a 500-foot no work buffer until the end of breeding season (July 1) or until the burrow has been determined to be inactive (and does not contain pups) by a qualified biologist. Implementation of **Mitigation Measure BIO-7** would reduce impacts to less than significant.

#### **Other Protections for Special Status Species**

Beyond those mitigation measures discussed above, the Project would also implement **Mitigation Measure BIO-3**, which requires an environmental training to be developed and presented to all crew members prior to the beginning of all Project construction. The training would describe special-status wildlife species and sensitive habitats that could occur within Project work areas, protection afforded to these species and habitats, and avoidance and minimization measures required. With implementation of **Mitigation Measures BIO-1**, BIO-3, BIO-4, BIO-6, and BIO-7, impacts to sensitive species resulting from the Project would be less than significant.

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

The Project is located within the Vidal Wash (Hydrologic Unit Code [HUC] 1503010402) and Upper Parker Valley-Colorado River (HUC 1503010403; USDA 2022) watersheds. Vegetation characteristic of Vidal Wash and the major wash to the north includes Blue Palo Verde- Ironwood Woodland, with banks dominated by blue palo verde, ironwood, and creosote. Other minor drainages present in the Project Site were primarily located within Creosote Bush Scrub habitat with bank vegetation typical of this community.

As seen in **Table 4.3-1**, *Comparison of Impacted Drainages within the Survey Area*, below, there are six drainages located within the Project Site which make up 123.85 acres of jurisdictional waters. Of the total 123.85 acres, 14.45 acres may be temporarily impacted by construction activities and 10.21 acres may be permanently impacted by construction activities. Thus, a total of 24.66 acres of jurisdictional waters would be impacted by the Project. All of the jurisdictional areas were determined to be waters of the State, under the jurisdiction of both CDFW and RWQCB. The CDFW and RWQCB jurisdictional waters are regulated by State and local governments under a no-net-loss policy, and all impacts should be avoided to the greatest extent possible. A map of temporary and permanent impacts to jurisdictional waters is provided in Appendix D of this Draft EIR.

	Total Acres Within Survey Area	Temporary Impacts (acres)	Permanent Impacts (acres)	Total Impacts (acres)
Drainage 1	3.88	2.17	1.71	3.88
Drainage 2	13.40	8.13	5.26	13.40
Drainage 3	0.10	0.07	0.03	0.10
Drainage 5	100.24	4.07	3.21	7.28
Drainage 6	6.22	0.0	0.0	0.0
Totals	123.85	14.45	10.21	24.66
Source: See Appendi	x D.			

#### Table 4.3-1: Comparison of Impacted Drainages within the Survey Area

On April 21, 2020, the U.S. EPA and USACE published the Navigable Waters Protection Rule in the Federal Register to finalize a revised definition of "Waters of the United States" (WOUS) under the CWA. This final rule became effective on June 22, 2020. The rule provides clear exclusions for many water features. The final rule specifically clarifies that WOUS do not include the following:

- Groundwater, including groundwater drained through subsurface drainage systems
- Ephemeral features that flow only in direct response to precipitation, including ephemeral streams, swales, gullies, rills, and pools

The drainages identified on site are considered ephemeral; therefore, based on the definition of WOUS, should not be considered under USACE jurisdiction.

The Project has been designed to minimize impacts to sensitive resources; however, impacts to all waters are not able to be avoided. Drainages 5 and 6 are the largest washes on-site and the Project layout has been designed to avoid these drainages. The Project would also be required to implement erosion protection and sediment control best management practices (BMPs) in compliance with the General Construction General Permit and the Stormwater Pollution Prevention Plan (SWPPP). Nonetheless, since impacts to other jurisdictional waters are not avoidable, the Project would implement **Mitigation Measures BIO-8** through **BIO-11** requiring habitat creation, enhancement, or preservation as determined by consultation with the regulatory agencies and the County during the permitting process. Any impacts to CDFW jurisdictional waters would require a 1602 Streambed Alteration Agreement from the CDFW. Since no Section 404 permit is required, Section 401 of the CWA is not applicable; however, a Waste Discharge Report (WDR), or a waiver to WDRs, may be required by RWQCB. A mitigation plan would be submitted for agency approval with each of the permit application packages. Although 24.66 acres of State waters would be impacted by the Project, acquisition of required permits and implementation of **Mitigation Measures BIO-8** through **BIO-11** would reduce impacts to less than significant.

# Threshold (d): Would the Project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

As mentioned in threshold a) above, the database search resulted in a list of 21 sensitive wildlife species documented to occur within the quadrangles containing and surrounding the Project Site. Of the 21 sensitive species, nine sensitive wildlife species were considered absent from the Project Site, six have low potential to occur, and seven have moderate potential to occur. Four species were considered Present on the Project Site. Project construction could temporarily interfere with the movement of native resident or migratory wildlife species for approximately 14 months, through the presence of workers on-site, equipment and vehicle travel, installation of fencing, and loud construction noise. To avoid impacts during construction Mitigation Measures BIO-3, BIO-5, BIO-6, and BIO-7 would be implemented. These mitigation measures require a biological monitor to be present to conduct pre-construction sweeps and species and sensitive habitats; a burrowing owl Take Avoidance Survey; and execution of a protocol for encountered desert kit fox burrows. Further, to avoid impediment or use of native wildlife survey sites **Mitigation Measure BIO-4** would require vegetation trimming/crushing to take place outside the general bird breeding season (February 15 to September 15) to the maximum extent practical or nesting bird surveys would be required.

Additionally, two large washes present on the Project Site (Drainages 4 and 5) are wildlife corridors providing a migration pathway for small to large mammal species (e.g., black-tailed jackrabbits, desert kit fox, mule deer, and wild burro) from the surrounding areas including the Turtle Mountains and Whipple Mountains to water sources such as the Colorado River. In accordance with **Mitigation Measure BIO-2**, desert riparian vegetation would be avoided to the greatest extent possible within Drainage 4 (Vidal Wash) and Drainage Systems 5 and 6 to preserve habitat for wildlife movement.

With implementation of **Mitigation Measures BIO-2** through **BIO-7**, impacts to the movement of wildlife species or the use of native wildlife nursery sites would be reduced to less than significant.

# Threshold (e): Would the Project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

The Project Site is within the planning area of several adopted local plans, including the West Mojave Plan, the County Countywide Plan/Policy Plan, and the DRECP. However, the West Mojave Plan and the DRECP apply only to BLM-administered lands and therefore do not apply to the Project. As such, the following analysis demonstrates Project consistency with the following relevant County goals and policies relating to the protection of biological resources.

With implementation of **Mitigation Measures BIO-1** through **BIO-7**, the Project would be consistent with the Renewable Energy and Conservation Element goals and policies to collaborate with appropriate federal and State agencies to facilitate mitigation/habitat conservation offsets on public lands where suitable habitat is available because the Project would not interfere with the County's programs to:

- Balance sustainable energy production with sound resource conservation;
- Apply standards to the design, siting, and operation of renewable energy facilities that protect special-status biological resources; and
- Select and design renewable energy sites to conserve habitat; avoid impacts to special-status habitats and wildlife corridors; and provide sanctuary for native bees, butterflies, and birds, where feasible and appropriate.

With implementation of **Mitigation Measures BIO-1** through **BIO-7**, the Project would be consistent with Development Code Section 88.01.060 to conserve specified desert plant species as the Project would not impact special-status plants.

The Project would be consistent with the requirement of Development Code Chapter 82.11 for a biotic resources report evaluating significant project impacts to and mitigation measures for biotic resources on and adjacent to the Project Site. In addition, the Project would not interfere with the County's programs to protect and conserve beneficial unique, rare, threatened, or endangered plants and animal resources and their habitats in unincorporated areas because the Project would implement mitigation measures to reduce potential direct and indirect impacts to special-status habitats and wildlife species to less than significant levels.

Because the Project would implement mitigation measures to reduce potential direct and indirect impacts to special-status habitats and wildlife species to less than significant levels, the Project would be consistent with and would not interfere with Development Code Chapter 88.01 and the County's programs for the:

- Management of biotic resources in unincorporated areas under private or public ownership, including conservation of native plant heritage;
- Regulation of native plant and tree removal activities;
- Protection and maintenance of local watersheds;
- Preservation of habitats for rare, endangered, or threatened plants; and
- Protection of wildlife with limited or specialized habitats.

With implementation of **Mitigation Measures BIO-1** through **BIO-7**, impacts would be reduced to less than significant.

# 4.3.7 Cumulative Impacts

Chapter 3.0, Environmental Setting, of this Draft EIR provides a list of related projects that would have the potential to be considered in a cumulative context with the Project's incremental contribution. These projects are summarized in **Table 3-2**, *Related Projects*, and shown in **Figure 3-1**, *Related Projects in the Planning Area*. The geographic scope for considering cumulative impacts on biological resources includes other related projects in the County's East Desert Region.

Development of the related projects could result in direct take to special-status plant and wildlife species; construction, operational, and decommissioning disturbances; and/or special-status habitat conversion. While most of the related projects would convert undeveloped land into renewable energy facilities, over time, vegetation communities would re-establish between the panels, fencing, and utility structures, allowing wildlife (e.g., rodents, raptors, small birds, and reptiles) to continue inhabiting and foraging on the sites over the lifetime of the projects (approximately 30 years). Decommissioning plans, required for solar projects, also outline revegetation requirements for potential habitat growth. Therefore, while habitat would be temporarily disturbed or removed during the construction and decommissioning phases, operation and post-operation of such renewable energy facilities would not result in substantial permanent impacts to special-status species and habitats, and the affected lands could return to existing conditions for the foreseeable future.

Further, as with the Project, these related projects would also be required to avoid and/or mitigate impacts to special-status species and habitats in accordance with County, CDFW, and USFWS requirements. Therefore, the Project's less than significant impacts with mitigation incorporated, in combination with other reasonably foreseeable development projects in the County's East Desert Region, would not result in significant cumulative impacts to special-status species or habitats. Accordingly, the Project would not result in a considerable contribution to a significant cumulative impact.

# 4.3.8 Mitigation Measures

In order to minimize potential impacts to biological resources, the following mitigation measures would be implemented:

- **BIO-1** A biological monitor shall be present prior to initiation of ground disturbing activities to demark limit of disturbance boundaries. Flagging and/or staking shall be used to clearly define the work area boundaries and avoid impacts to sensitive plant species with the potential to occur near the proposed Project boundaries. The biological monitor will be present to conduct pre-construction sweeps and inspect compliance with project protection measures.
- **BIO-2** Desert riparian vegetation shall be avoided to the greatest extent possible within Drainage 4 (Vidal Wash) and Drainage Systems 5 and 6 to preserve habitat for the sensitive species with potential to nest and forage in these areas.
- **BIO-3** An environmental training program shall be developed and presented to all crew members prior to the beginning of all project construction. The training shall describe special-status wildlife species and sensitive habitats that could occur within project work

areas, protection afforded to these species and habitats, and avoidance and minimization measures required to avoid and/or minimize impacts from the project. The training program will be approved by a qualified biologist. Records of training will be kept on-site.

- **BIO-4** Vegetation trimming/crushing shall take place outside the general bird breeding season (February 15 to September 15), to the maximum extent practical. If this is not possible, prior to ground-disturbing activities, a qualified biologist shall conduct a nesting bird survey to comply with CDFW Code 3503 and 3503.5 and the Migratory Bird Treaty Act. The survey shall occur no more than 30 days prior to initiation of proposed project activities, and any occupied passerine and/or raptor nests occurring within or adjacent to the proposed project area shall be delineated. Additional follow-up surveys may be required by the resource agencies and the County of San Bernardino. If an active nest is identified, an avoidance buffer zone around occupied nests (as determined by the avian biologist) shall be maintained during physical ground-disturbing activities. The buffer zone shall be sufficient in size to prevent impacts to the nest. Once nesting has ceased and the fledglings are no longer using the nest area, the buffer may be removed. A nesting bird survey report shall be provided to the County of San Bernardino.
- **BIO-5** If a sensitive species is found, the species shall be relocated out of harm's way according to the capture/relocation plan. Any mortalities shall be reported to the agencies and County of San Bernardino. A final monitoring report will be submitted to CDFW and County of San Bernardino. The annual report shall include a summary of pre-construction surveys, biological monitoring, avoidance measures implemented, and whether the avoidance measures were effective.
- **BIO-6** Prior to construction, a burrowing owl Take Avoidance Survey shall be conducted by a qualified biologist. The survey shall be conducted no less than 14 days prior to initiating ground disturbance activities. If burrowing owls are determined to be present where Project activities will occur, minimization and avoidance measures shall be required including but not limited to a final survey within 24 hours prior to ground disturbance.
- **BIO-7** If any burrow/burrow complex is determined to house desert kit fox and the burrow/burrow complex is unavoidable, exclusionary devices (e.g., one-way doors) should be fitted on the active burrow openings, and once the burrow is confirmed vacant, the burrow should be carefully excavated to prevent re-entry/re-use of the burrow. These exclusion/excavation activities should only occur during the non-breeding season (July 2 to January 15). If construction will occur during the breeding season, any active burrow/burrow complex that is unavoidable should be provided a 500-foot no work buffer until the end of breeding season (July 1) or until the burrow has been determined to be inactive (and does not contain pups) by a qualified biologist.
- **BIO-8** Temporary and permanent impacts to all jurisdictional resources shall be compensated through a combination of habitat creation (i.e., establishment), enhancement, preservation, and/or and restoration at a minimum of a 1:1 ratio or as required by the permitting agencies. Any creation, enhancement, preservation, and/or restoration effort shall be implemented pursuant to a Habitat Restoration Plan, which shall include success criteria and monitoring specifications, and shall be approved by the permitting agencies and County of San Bernardino. A habitat restoration specialist will be designated and

approved by the permitting agencies and will determine the most appropriate method of restoration.

- **BIO-9** Temporarily impacted drainage features shall be recontoured to pre-construction conditions. Temporary impacts shall be restored sufficient to compensate for the impact to the satisfaction of the permitting agencies (depending on the location of the impact). If restoration of temporary impact areas is not possible to the satisfaction of the appropriate agency, the temporary impact shall be considered a permanent impact and compensated accordingly.
- **BIO-10** A biological monitor shall be present prior to initiation of ground disturbing activities to demark limit of disturbance boundaries. Flagging and/or staking will be used to clearly define the work area boundaries and avoid impacts to adjacent drainage features.
- **BIO-11** Graded areas shall be stabilized to promote infiltration and reduce run-off potential.

# 4.3.9 Level of Significance After Mitigation

With the implementation of **Mitigation Measures BIO-1** through **BIO-11**, the Project's impacts on biological resources would be reduced to less than significant.

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# 4.4 CULTURAL RESOURCES

### 4.4.1 Introduction

This section addresses the Project's potential impacts in relation to cultural resources, including prehistoric and historic archaeological sites, archaeological districts, historic buildings and structures, and isolated occurrences of artifacts. Such resources provide information on scientific progress, environmental adaptations, group ideology, or other human advancements. By statute, the California Environmental Quality Act (CEQA) is primarily concerned with two classes of cultural resources: Historical resources, which are defined in Public Resources Code (PRC) Section 21084.1 and CEQA Guidelines Section 15064.5, and unique archaeological resources, which are defined in PRC Section 21083.2.

Information contained in this section is derived from the Cultural Resources Survey Report, dated March 2022, prepared by Chambers Group, Inc. (Appendix E). Due to the confidential nature of the location of cultural resources, information regarding locations of these resources has been removed and is not included in the appendix.

# 4.4.2 Existing Environmental Setting

#### **Existing Conditions**

The Project Site is located in southeastern San Bernardino County (County), along the western margin of the Colorado River Indian Tribes Reservation, immediately adjacent to the Colorado River, approximately 41 miles north of Blythe and 58 miles south of Needles, California. This area is located within the northernmost section of the Sonoran Desert physiography, near its intersection with the Mojave Desert. At this location, the Mojave Desert encompasses a thin wedge of Sonoran Desert extending along the Colorado River, stretching only a few miles west of the river. The Sonoran Desert is composed of several subregion deserts for which this aspect is defined as part of the Colorado Desert.

#### **Cultural Setting**

As one of the first researchers in the Southern California deserts, Malcolm Rogers and his cultural chronologies have influenced and confounded subsequent researchers for decades. Rogers was among the first to synthesize and propose a regional overview; but because he frequently added new data to his thesis, several revisions—often contrary to a previous iteration—were produced. Rogers proposed a sequence beginning with the San Dieguito Complex, which he subdivided into San Dieguito I, II, and III. This cultural complex spanned from 11000 to 9000 before present (B.P.). After a 2000-year hiatus, the Amargosa Complex (Amargosa I–III) followed, dating from 7000 to 1950 B.P. Rogers then proposed the introduction of Basketmaker III and Pueblo II Periods, dating from 1950 to 1450 B.P. This was then followed by Prehistoric Yuman and Shoshonean Groups from approximately 1450 to 450 B.P., and then by the Paiute and Mojave groups after 450 B.P.

#### Mojave Desert

The Mojave Desert cultural sequence had been divided into five major periods. This sequence includes Lake Mojave, Pinto, Gypsum, Saratoga Springs, and Shoshonean/Protohistoric periods. Warren describes the Lake Mojave period, from 10000 to 7000 B.P., as being "a generalized hunting and gathering subsistence system." The Pinto Period which follows, dating approximately from 7000 to 4000 B.P., is

defined by its characteristic Pinto-style projectile point as well as by scrapers and knives. Warren also suggested that this period lacked ground stone implements. Schroth], however, states "Ground stone, principally cobble manos and block metates, are present at 16" of 22 Pinto-period sites in the Pinto Basin. Campbell and Campbell also noted ground stone at Pinto Basin sites, though they could not necessarily place these within the Pinto-period. Nevertheless, Campbell and Campbell noted that given the numerous associations of ground stone within these sites they could not disclaim their contemporaneity with the other Pinto-period artifacts. These factors suggest that Pinto-period occupation comprised small bands of people, as evidenced by the non-intensive seasonal encampments that date to this period. By 4000 B.P. Humboldt Concave Base, Gypsum Cave, Elko Eared, and Elko Corner-notched projectile points are evident in the archaeological record. Additionally, ground stone tools suggest a shift toward a changing economy based on processing hard seed goods.

Indications of long-range trade or travel are also suggested, based on coastal California shell ornaments. By 1450 B.P. use of ground stone and bow and arrow technologies suggests further shifts in desert adaptations. With the introduction of the Rose Spring and Eastgate projectile points through much of the desert region and brownware and buffware ceramics as well as Cottonwood and Desert Side-notched projectile points in the southern desert region, Warren proposed the Saratoga Springs Period. Dating from 1450 to 750 B.P. this period is characterized by "more complex settlement-subsistence system with large permanent villages" and increased long-distance networks. Warren further suggests that the artifact types associated with the Saratoga Springs Period see continued use through the Shoshonean/Protohistoric time period, from 750 B.P. up to the historic period.

Following on from Warren, Sutton presents a slightly altered chronology for the Mojave Desert region. Though claims for a very early "Pre-Projectile Point" occupation of the desert region have been made, Sutton suggests that evidence for these claims is wanting. The first clearly definable period of occupation occurs during the Paleoindian Period. Dating from 12,000 to 10,000 B.P, the Paleoindian Period is characterized by Clovis, or Clovis-style, fluted points, which have been associated with the Big Game Hunting Tradition. Sutton notes, however, that while taking megafauna may have been the primary subsistence strategy, smaller game as well as vegetal foods would have also been procured. Sutton's Pre-Projectile Period cultural sequence is followed by Warren's outline for the Lake Mojave, Pinto, and Gypsum Periods. Sutton nuances Warren's Saratoga Springs Period with his own Rose Springs Period. Dating from 1450 to 950 B.P., the Rose Spring Period follows the Gypsum Period and is characterized by Rose Springs and Eastgate projectile points. These point types—indicating use of bow and arrow technologies along with the use of ground stone tools, imported marine shell artifacts and obsidian, and evidence of more developed middens within sites—suggest more intensive and extensive use of desert resources. Sutton's Late Prehistoric Period, from 950 B.P. to contact, is an extension of the previous Rose Springs Period with a continuation of similar subsistence strategies, but with a replacement of projectile point forms with Cottonwood Triangular and Desert Side-notched points and the introduction of ceramic technology.

Like others, Hall suggests a five-stage chronology. Hall begins with the Lake Mojave Period beginning around 10,000 B.P. and extending to 7500 B.P. Hall suggests that during this period the Mojave Desert region was occupied by small bands of hunters and gatherers. Great Basin stemmed points and flaked stone crescents mark this period. Continuing on into the Pinto Period (approximately 7500 B.P. to 4500 B.P.), these mobile bands evidenced an intensified occupation with the advent of ground stone tools, a reliance on large and small game, and an assortment of vegetal resources. Long-range travel or trade is also noted for this period, as illustrated by the presence of *Olivella* sp. spire-lopped beads in archaeological sites.

Following a brief hiatus, a culture adopting a different strategy emerges. Hall describes the Newberry Period, dating from 4000 to 1450 B.P., as one which has "geographically expansive land-use pattern[s]...involving small residential groups moving between select localities." As with the Pinto Period, there is evidence of long-distance trade or travel, along with a diffusion of trait characteristics from other groups. Defining artifact types from this period include Elko and Gypsum contracting stem points and split oval beads. Hall then adopts Warren's Saratoga Springs Period (1450 to 750 B.P) and adds a Tecopa Period (750 B.P to contact) as defining the last 1,500 years of cultural development. Like Warren's Saratoga Springs Period, Hall notes an apparent restriction in geographic use area as a consequence of an increasing population. Anasazi grayware ceramics and Rose Springs and Eastgate projectile points are characteristic artifact types for the period. The Tecopa Period sees a continuation of similar patterns noted during the Saratoga Springs Period; and, like Sutton's Late Period, Cottonwood Triangular and Desert Side-notched projectile points replace earlier iterations. Furthermore, buff and brownwares are introduced into the archaeological record, as well as beads of steatite, glass, and *Olivella* sp., including Thin Lipped, Tiny Saucer, Cupped, and Cylinder styles.

#### **Colorado Desert**

Schaefer, using numerous northern Colorado Desert area studies, presents a four-period cultural sequence. Incorporating Rogers' earlier definition of the Malpais Pre-Projectile Period, Schaefer identifies a Paleoindian Period, dating prior to 10,000 B.P. and lasting to 8000 B.P. It is characterized by settlements atop mesas and terraces occupied by small, mobile bands of hunters and gatherers who subsisted on small and large game and a variety of vegetal materials. Key indicators of this period include cleared circular areas in the desert gravels, sometimes called "house sites" or "sleeping circles"; gravel pictographs of both the rock alignment and intaglio type; and very simple stone tools.

Schaefer next describes an Early Archaic Period dating from 8000 B.P. to 4000 B.P. and a Late Archaic Period dating from 4000 to 1450 B.P. Both periods appear to have been thinly populated with a population decline beginning in the Early Archaic. Both periods indicated highly flexible group sizes that practiced a seasonally adjusted settlement pattern based on available food resources. Ground stone tool production and use greatly expands during this period. In a work presented by Altschul, Schaefer elaborates on these periods, shifting the time frame out to 10,000 B.P. and 1350 B.P. and inserting a Middle Archaic Period. While both Early and Late Archaic periods are indicated by low population densities, Schaefer suggests that the Middle Archaic witnessed a population increase. Based on interpretations of increased projectile point variability, some have suggested that social group membership, resource competition, and development of defenses along territorial borders were taking place during this period. Following a return to warmer and drier conditions, the Late Archaic Period appears to indicate a return to small, mobile groups focusing on ground stone technology and seasonally available resources. Characteristic artifact types include large spear and dart points, basketry, nets, traps, split-twig figurines (which were also noted in Warren's Gypsum Period), and other perishable items.

Schaefer's last cultural phase, the Late Prehistoric, has been termed the Patayan and has been subdivided into Patayan I, II, and III. Particular characteristic features of this period are the use of ceramic technology, cremation funerary patterns, and an extensive trail system. Schaefer dates Patayan I from 1150 to 900 B.P., noting that people organized in small mobile groups along the Lower Colorado River and utilized a Hohokam-style tool kit. The Patayan II Period is dated from 900 to 450 B.P. and is notable for the infilling of Lake Cahuilla. The lake encouraged population shifts toward the floodplain and along the western and eastern regions of the desert. Ceramic production also shifted from the Lower Colorado River toward a more local manufacture. Subsequent desiccation of Lake Cahuilla marks the Patayan III Period

(approximately 450 B.P. to historic times). Populations return to the Lower Colorado River as small, mobile bands subsisting on seasonal hunting and gathering as well as on small-scale agriculture. During this period contact with European explorers is made, giving rise to the Protohistoric Period.

For an ethnography of the Project Site and surrounding area please refer to Section 4.10, Tribal Cultural Resources, of this Draft EIR.

# 4.4.3 Regulatory Setting

#### Federal

#### Archaeological Resources Protection Act

The Archaeological Resources Protection Act of 1979 regulates the protection of archaeological sites and resources that are on Native American lands or federal lands.

#### National Historic Preservation Act of 1966

Enacted in 1966, the National Historic Preservation Act (NHPA) (16 United States Code [U.S.C] §§ 470 et seq.) declared a national policy of historic preservation and instituted a multifaceted program, administered by the Secretary of the Interior, to encourage the achievement of preservation goals at the federal, state, and local levels. The NHPA authorized the expansion and maintenance of the National Register of Historic Places (NRHP), established the position of State Historic Preservation Officer (SHPO), provided for the designation of State Review Boards, set up a mechanism to certify local governments to carry out the purposes of the NHPA, assist Native American tribes in preserving their cultural heritage, and created the Advisory Council on Historic Preservation (ACHP).

NHPA establishes the nation's policy for historic preservation and sets in place a program for the preservation of historic properties by requiring federal agencies to consider effects to significant cultural resources (i.e., historic properties) prior to undertakings.

#### Section 106 of the National Historic Preservation Act of 1966

Federal regulations for cultural resources are governed primarily by Section 106 of the National Historic Preservation Act of 1966. Section 106 of the NHPA states that federal agencies with direct or indirect jurisdiction over federally funded, assisted, or licensed undertakings must take into account the effect of the undertaking on any historic property that is included in, or eligible for inclusion in, the NRHP and that the ACHP and SHPO must be afforded an opportunity to comment, through a process outlined in the ACHP regulations at 36 Code of Federal Regulations (CFR) Part 800, on such undertakings. The goal of the Section 106 review process is to offer a measure of protection to sites that are determined eligible for listing on the NRHP. The criteria for determining National Register eligibility are found in 36 CFR 60. Amendments to the NHPA (1986 and 1992) and subsequent revisions to the implementing regulations have, among other things, strengthened the provisions for Native American consultation and participation in the Section 106 review process. While federal agencies must follow federal regulations, most Projects by private developers and landowners do not require this level of compliance. Federal regulations only come into play in the private sector if a project requires a federal permit or if it uses federal funding.

#### National Register of Historic Places

The NRHP was established by the NHPA of 1966 as "an authoritative guide to be used by federal, state, and local governments, private groups, and citizens to identify the Nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment." The NRHP recognizes properties that are significant at the national, state, and local levels. To be eligible for listing in the NRHP, a resource must be significant in American history, architecture, archaeology, engineering, or culture. Districts, sites, buildings, structures, and objects of potential significance must also possess integrity of location, design, setting, materials, workmanship, feeling, or association. A property is eligible for the NRHP if it is significant under one or more of the following criteria:

- Criterion A: It is associated with events that have made a significant contribution to the broad patterns of our history.
- Criterion B: It is associated with the lives of persons who are significant in our past.
- Criterion C: It embodies the distinctive characteristics of a type, period, or method of construction; represents the work of a master; possesses high artistic values; or represents a significant and distinguishable entity whose components may lack individual distinction.
- Criterion D: It has yielded, or may be likely to yield, information important in prehistory or history.

Notwithstanding Criteria Considerations, in general cemeteries, birthplaces, or graves of historic figures; properties owned by religious institutions or used for religious purposes; structures that have been moved from their original locations; reconstructed historic buildings; and properties that are primarily commemorative in nature are not considered eligible for the NRHP unless they satisfy certain conditions. In general, a resource must be at least 50 years of age to be considered for the NRHP, unless it satisfies a standard of exceptional importance.

In addition to the four National Register Criteria noted above, qualifying resources must maintain elements of integrity. Integrity is the ability of a property to convey its significance. According to the National Park Service, "The evaluation of integrity is sometimes a subjective judgment, but it must always be grounded in an understanding of a property's physical features and how they relate to its significance." The National Register Bulletin (1990, revised 1997) identifies seven aspects of integrity that a property should retain, and include: Location, Design, Setting, Materials, Workmanship, Feeling, and Association. While maintenance of all aspects of integrity is not required, a property should possess most of the aspects that are integral to its ability to convey its significance. Understandably, not all aspects of integrity are applicable across the range of buildings, structure, objects, or sites under evaluation. Aspects such as design or feeling likely would not be integral to understanding the significance of an archaeological deposit, whereas these would be essential in understanding a significant building, or landscape.

The Bulletin further exemplifies how to broadly assess the integrity of eligible resources when applying the qualifying National Register Criteria. Under Criteria A and B, a property that is significant for its historic association is eligible if it retains the essential physical features that made up its character or appearance during the period of its association with the important event, historical pattern, or person(s). If the property is a site (such as a treaty site) where there are no material cultural remains, the setting must be intact. Eligible archaeological sites must be in overall good condition with excellent preservation of features, artifacts, and spatial relationships to the extent that these remains are able to convey important associations with events or persons.

Under Criterion C, a property important for illustrating a particular architectural style or construction technique must retain most of the physical features that constitute that style or technique. A property that has lost some historic materials or details can be eligible if it retains the majority of the features that illustrate its style in terms of the massing, spatial relationships, proportion, pattern of windows and doors, texture of materials, and ornamentation. The property is not eligible, however, if it retains some basic features conveying massing but has lost the majority of the features that once characterized its style. Eligible archaeological sites must be in overall good condition with excellent preservation of features, artifacts, and spatial relationships to the extent that these remains are able to illustrate a site type, time period, method of construction, or work of a master.

Properties eligible under Criterion D, including archaeological sites and standing structures studied for their information potential, less attention is given to their overall condition, than if they were being considered under Criteria A, B, or C. Archaeological sites, in particular, do not exist today exactly as they were formed. There are numerous cultural and natural processes that may have altered the deposited materials and their spatial relationships. For properties eligible under Criterion D, integrity is based upon the property's potential to yield specific data that addresses important research questions, such as those identified in the historic context documentation, or in the research design, for projects meeting the Secretary of the Interior's Standards for Archeological Documentation.

#### Native American Graves Protection and Repatriation Act of 1990

The Native American Graves Protection and Repatriation Act (NAGPRA) of 1990 sets provisions for the intentional removal and inadvertent discovery of human remains and other cultural items from federal and tribal lands. It clarifies the ownership of human remains and sets forth a process for repatriation of human remains and associated funerary objects and sacred religious objects to the Native American groups claiming to be lineal descendants or culturally affiliated with the remains or objects. It requires any federally funded institution housing Native American remains or artifacts to compile an inventory of all cultural items within the museum or with its agency and to provide a summary to any Native American tribe claiming affiliation.

#### State

The Office of Historic Preservation (OHP), an office of the Department of Park and Recreation (DPR), implements the policies of the NHPA on a State-wide level. The OHP also carries out the duties as set forth in the PRC and maintains the California Historic Resources Inventory and the California Register of Historical Resources (CRHR). The SHPO is an appointed official who implements historic preservation programs within the State's jurisdictions. Also implemented at the State level, CEQA requires projects to identify any substantial adverse impacts which may affect the significance of identified historical resources.

#### California Register of Historical Resources

The CRHR was created by Assembly Bill (AB) 2881 which was signed into law on September 27, 1992. The CRHR is "an authoritative listing and guide to be used by state and local agencies, private groups, and citizens in identifying the existing historical resources of the state and to indicate which resources deserve to be protected, to the extent prudent and feasible, from substantial adverse change" (PRC Section 5024.1(a)).

The CRHR consists of resources that are listed automatically and those that must be nominated through an application and public hearing process. The CRHR automatically includes the following:

- California properties listed on the National Register of Historic Places and those formally Determined Eligible for the National Register of Historic Places;
- California Registered Historical Landmarks from No. 770 onward;
- Those California Points of Historical Interest that have been evaluated by the OHP and have been recommended to the State Historical Commission for inclusion on the California Register.

Other resources which may be nominated to the CRHR include:

- Individual historical resources;
- Historical resources contributing to historic districts;
- Historical resources identified as significant in historical resources surveys with significance ratings of Category 1 through 5;
- Historical resources designated or listed as local landmarks, or designated under any local ordinance, such as an historic preservation overlay zone (PRC Section 5024.1(e)).

To be eligible for the CRHR, a historic resource must be significant at the local, State, or national level, under one or more of the following four criteria:

- 1) It is associated with the events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the U.S.;
- 2) It is associated with the lives of persons important to local California, or U.S. history;
- 3) It embodies the distinctive characteristics of a type, period, region, or method of construction, represents the work of a master, possesses high artistic values; and/or
- 4) It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

Additionally, a historic resource eligible for listing in the CRHR must meet one or more of the criteria of significance described above and retain enough of its historic character or appearance to be recognizable as a historic resource and to convey the reasons for its significance.

#### California Environmental Quality Act

CEQA is the principal statute governing environmental review of projects occurring in the state and is codified at PRC Section 21000 et seq. CEQA requires lead agencies to determine if a proposed project would have a significant effect on the environment, including significant effects on historical or unique archaeological resources. Under PRC Section 21084.1, a "project that may cause a substantial adverse change in the significance of a historic resource is a project that may have a significant effect on the environment." This statutory standard involves a two-part inquiry. The first involves a determination of whether the project involves a historic resource. If so, then the second part involves determining whether the project may involve a "substantial adverse change in the significance" of the resource. To address

these issues, guidelines that implement the 1992 statutory amendments relating to historical resources were adopted on October 26, 1998, with the addition of CEQA Guideline Section 15064.5. The CEQA Guidelines 15064.5 provides that for the purposes of CEQA compliance, the term "historical resources" shall include the following:

- A resource listed in or determined to be eligible by the State Historical Resources Commission, for listing in the CRHR.
- A resource included in a local register of historical resources, as defined in Section 5020.1(k) of the PRC or identified as significant in a historical resource survey meeting the requirements in Section 5024.1(g) of the PRC, shall be presumed to be historically or culturally significant. Public agencies must treat such resources as significant for purposes of CEQA unless the preponderance of evidence demonstrates that it is not historically or culturally significant.
- Any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California may be considered to be a historical resource, provided the lead agency's determination is supported by substantial evidence in light of the whole record. Generally, a resource shall be considered by the lead agency to be 'historically significant' if the resource meets one of the criteria for listing on the CRHR.
- The fact that a resource is not listed in or determined to be eligible for listing in the CRHR, not
  included in a local register of historical resources (pursuant to Section 5020.1(k) of the PRC), or
  identified in a historical resources survey (meeting the criteria in Section 5024.1(g) of the PRC)
  does not preclude a lead agency from determining that the resource may be a historical resource
  as defined in PRC Sections 5020.1(j) or 5024.1."

If a lead agency determines that an archaeological site is a historical resource, the provisions of CEQA Guidelines Sections 21084.1 and 15064.5 apply. If an archaeological site does not meet the criteria for a historical resource contained in the CEQA Guidelines, then the site may be treated in accordance with the provisions of Section 21083, which is as a unique archaeological resource. As defined in CEQA Guidelines Section 21083.2, a "unique" archaeological resource is an archaeological artifact, object, or site, about which it can be clearly demonstrated that without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

- Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information;
- Has a special and particular quality such as being the oldest of its type or the best available example of its type; or,
- Is directly associated with a scientifically recognized important prehistoric or historic event or person.

If an archaeological site meets the criteria for a unique archaeological resource as defined in Section 21083.2, then the site is to be treated in accordance with the provisions of Section 21083.2, which state that if the lead agency determines that a project would have a significant effect on unique archaeological resources, the lead agency may require reasonable efforts be made to permit any or all of these resources

to be preserved in place (Section 21083.1(a)). If preservation in place is not feasible, mitigation measures shall be required. CEQA Guidelines Section 15064.5(c)(4) notes that if an archaeological resource is neither a unique archaeological nor a historical resource, the effects of the project on those resources shall not be considered a significant effect on the environment.

A significant effect under CEQA would occur if a project results in a substantial adverse change in the significance of a historical resource as defined in CEQA Guidelines Section 15064.5(a). As defined in CEQA Guidelines Section 15064.5(b)(1), substantial adverse change is "physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of a historical resource would be materially impaired." According to CEQA Guidelines Section 15064.5(b)(2), the significance of a historical resource the surroundings such that the significance of a historical resource is materially impaired when a project demolishes or materially alters in an adverse manner those physical characteristics that:

- A. Convey its historical significance and that justify its inclusion in, or eligibility for, inclusion in the CRHR; or
- B. Account for its inclusion in a local register of historical resources pursuant to section 5020.1(k) of the Public Resources Code or its identification in a historical resources survey meeting the requirements of section 5024.1(g) of the Public Resources Code, unless the public agency reviewing the effects of the project establishes by a preponderance of evidence that the resource is not historically or culturally significant; or
- C. Convey its historical significance and that justify its eligibility for inclusion in the CRHR as determined by a Lead Agency for purposes of CEQA.

#### California Government Code Sections 6254(r) and 6254.10

These sections of the California Public Records Act were enacted to protect archaeological sites from unauthorized excavation, looting, or vandalism. Section 6254(r) explicitly authorizes public agencies to withhold information from the public relating to "Native American graves, cemeteries, and sacred places maintained by the Native American Heritage Commission." Section 6254.10 specifically exempts from disclosure requests for "records that relate to archaeological site information and reports, maintained by, or in the possession of the Department of Parks and Recreation, the State Historical Resources Commission, the State Lands Commission, the Native American Heritage Commission, another state agency, or a local agency, including the records that the agency obtains through a consultation process between a Native American tribe and a state or local agency."

#### Assembly Bill 4239

AB 4239 established the Native American Heritage Commission (NAHC) as the primary government agency responsible for identifying and cataloging Native American cultural resources. The bill authorized the NAHC to act in order to prevent damage to and insure Native American access to sacred sites and authorized the NAHC to prepare an inventory of Native American sacred sites located on public lands.

#### Public Resources Code 5097.97

No public agency and no private party using or occupying public property or operating on public property under a public license, permit, grant, lease, or contract made on or after July 1, 1977, shall in any manner whatsoever interfere with the free expression or exercise of Native American religion as provided in the United States Constitution and the California Constitution; nor shall any such agency or party cause severe

or irreparable damage to any Native American sanctified cemetery, place of worship, religious or ceremonial site, or sacred shrine located on public property, except on a clear and convincing showing that the public interest and necessity so require.

#### Public Resources Code Sections 5097.98(b) and (e)

PRC Sections 5097.98(b) and (e) require a landowner on whose property Native American human remains are found to limit further development activity in the vicinity until he/she confers with the NAHC-identified Most Likely Descendants (MLDs) to consider treatment options. Once the MLD has been granted access to the site by the landowner and inspected the discovery, the MLD then has 48 hours to provide recommendations to the landowner for the treatment of the human remains and any associated grave goods. In the absence of MLDs or of a treatment acceptable to all parties, the landowner is required to reinter the remains elsewhere on the property in a location not subject to further disturbance.

#### California Health and Safety Code, Section 7050.5, 7501, and 7054

California Health and Safety Code (HSC) Sections 7050.5, 7051, and 7054 collectively address the illegality of interference with human burial remains as well as the disposition of Native American burials in archaeological sites. The law protects such remains from disturbance, vandalism, or inadvertent destruction and establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project, including the treatment of remains prior to, during, and after evaluation, and reburial procedures. California HSC Section 7050.5 requires that in the event human remains are discovered, the County Coroner be contacted to determine the nature of the remains. In the event the remains are determined to be Native American in origin, the Coroner is required to contact the NAHC within 24 hours to relinquish jurisdiction.

#### Local

#### San Bernardino County Development Code

Development Code Chapter 82.12, Cultural Resources Preservation (CP) Overlay, includes regulations pertaining to the identification and preservation of important archaeological and historical resources. The chapter outlines application requirements for a project proposed within a CP Overlay, as well as development standards and an explanation of the need for a Native American monitor. The Development Code states that the CP Overlay may be applied to areas where archaeological and historic sites that warrant preservation are known or are likely to be present. Specific identification of known cultural resources is indicated by listing in one or more of the following inventories: California Archaeological Inventory, California Historic Resources Inventory, California Historical Landmarks, California Points of Historic Interest, and/or National Register.

#### San Bernardino County Countywide Plan/Policy Plan

The County adopted the Countywide Plan/Policy Plan) in October 2020. The Policy Plan provides an update of the County's General Plan addressing physical, social and economic issues facing the unincorporated portions of the County. The Policy Plan also provides an expansion of the County's General Plan to address supportive service for adults and children, healthcare service, public safety, and other regional county services provided to both incorporated and unincorporated areas. Relevant policies from the Cultural Resources Element are as follows:

- **Goal CR-2 Historic and Paleontological Resources.** Historic resources (buildings, structures, or archaeological resources) and paleontological resources that are protected and preserved for their cultural importance to local communities as well as their research and educational potential.
- **Policy CR-2.1** National and state historic resources. We encourage the preservation of archaeological sites and structures of state or national significance in accordance with the Secretary of Interior's standards.
- **Policy CR-2.2** Local historic resources. We encourage property owners to maintain the historic integrity of resources on their property by (listed in order of preference): preservation, adaptive reuse, or memorialization.
- Policy CR-2.3 Paleontological and archaeological resources. We strive to protect paleontological and archaeological resources from loss or destruction by requiring that new development include appropriate mitigation to preserve the quality and integrity of these resources. We require new development to avoid paleontological and archeological resources whenever possible. If avoidance is not possible, we require the salvage and preservation of paleontological and archeological resources.
- **Policy CR-2.4 Partnerships.** We encourage partnerships to champion and financially support the preservation and restoration of historic sites, structures, and districts.
- Policy CR-2.5Public awareness and education. We increase public awareness and conduct<br/>education efforts about the unique historic, natural, tribal, and cultural resources in<br/>San Bernardino County through the County Museum and in collaboration with other<br/>entities.

# 4.4.4 Thresholds of Significance

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to cultural resources if it would:

- **Threshold (a):** Cause a substantial adverse change in the significance of a historical resource pursuant to Section 15064.5;
- **Threshold (b):** Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5; or
- **Threshold (c):** Disturb any human remains, including those interred outside of formal cemeteries.

# 4.4.5 Methodology

Chambers Group completed an archaeological literature review and cultural resources inventory survey for the Project. A Cultural Resources Report was prepared for the Project (Appendix E). A records search request to the South Central Coastal Information Center (SCCIC) was submitted on July 9, 2020, and cultural resources surveys were completed in July and October 2020. A summary of these efforts has been included below.

#### Literature Review

A records search request was submitted to the SCCIC at California State University, Fullerton, on July 9, 2020. The records search results were received on August 27, 2020. The records search indicates that three studies have taken place within the Project Site, and three studies are located within a 1.0-mile radius of the Project Site.

#### Assembly Bill 52

Chambers Group submitted a request for a search of the Sacred Lands Files (SLF) housed at the NAHC on July 9, 2020. The results of the search were returned on July 10, 2020, and were positive, indicating that sacred areas are known within or around the Project Site that may be impacted by Project development. The NAHC response included a recommendation to reach out to the Chemehuevi Indian Tribe for more information. The NAHC provided contact information for the Chemehuevi Indian Tribe and seven other tribes that may have information on cultural resources on the Project Site. For further information regarding the Project's tribal consultation process, refer to Section 4.10, Tribal Cultural Resources.

#### **Field Survey**

Chambers Group performed a survey of the Project Site over the course of three weeks in two separate rotations. The first rotation occurred from July 27 to July 31, 2020 with qualified Chambers Group archaeologists. The second rotation occurred between October 5 and October 14, 2020 and included Chambers Group archaeologists. The Project Site was surveyed at 15-meter intervals, and crews were equipped with sub-meter accurate Global Positioning Systems (GPS) units for recording spatial data and to document the survey area and all findings through ArcGIS Collector and Survey 123. A prior visit by Chambers Group biologists conducting targeted plant and desert tortoise surveys earlier in the year, identified approximately 15 historic-period and prehistoric-period resources. All of these possible resources were revisited by the cultural resources survey teams.

The archaeologists examined exposed ground surface for artifacts (e.g., flaked stone tools, tool-making debris, milling tools, ceramics), ecofacts (e.g., marine shell and bone), soil discoloration that might indicate the presence of a cultural midden, and features indicative of the former presence of structures or buildings (e.g., standing exterior walls, postholes, foundations) or historic debris (e.g., metal, glass, ceramics). Ground disturbances such as burrows were visually inspected for archaeological resources. In addition, previously identified possible historic properties were visited and photographed for inclusion in this report. These properties were assessed in the field and through post-field analysis of historic aerial photographs.

# 4.4.6 **Project Impact Analysis**

- Threshold (a): Would the Project cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?
- Threshold (b): Would the Project cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?

During the literature search, Chambers Group found that none of the reported studies within the Project Site or within a 1.0-mile radius of the Project Site resulted in the identification of cultural resources within the Project Site. One unreported study resulted in the identification of a road segment (P-36-024757)

along the eastern margin of U.S. Route 95, which is directly connected to a longer dirt road that crosses through the east-west axis of the northern third of the Project Site. No indication as to the status of this road segment on the CRHR is given. Two other resources were identified outside the Project Site. These include a prehistoric lithic reduction station, which was destroyed during a geological testing program, and three prehistoric sleeping circles, the current status of which are unknown.

As a result of the current cultural resources survey, a total of 64 resources were identified. These include 21 historic-period resources, 32 prehistoric resources, and 11 prehistoric isolates. **Table 4.4-1**, *Count and Cultural Resource Type on the Project Site*, below provides the period, type, and number of each resource found on-site. Chambers Group completed a California DPR Form 523 for each of the 64 resources.

Period and Type	Number of Resources		
Historic			
Encampment	10		
Homestead	1		
Homestead trash scatter	2		
Mining trash scatter	1		
Ranching	1		
Survey monument	2		
Trash scatter	1		
WWII DTC/Cold War EDS	3		
Total Historic Sites	21		
Prehistoric			
Artifact scatter	2		
Ceramic scatter	3		
Desert pavement quarry	1		
Lithic reduction station	25		
Temporary camp	1		
Total Prehistoric Sites	32		
Total Prehistoric Isolates	11		
Total All Resources	64		
Source: See Appendix E.			

Table 4.4-1: Count and Cultural Resource Type on the Project Site

According to the Cultural Resources Report, the Project Site exhibits three primary eras of use. The earliest is the prehistoric period. The many archaeological sites and isolated artifacts recorded across the Project site illustrate a pattern of repeated, extensive use of the area by prehistoric Native American populations. The middle period of use within the Project Site is represented by sites that date to the early twentieth century. Calzona Mine Road runs through the Project Site and is indicated on a 1911 USGS map. Although the mine itself is not within the Project Site, an artifact scatter was identified adjacent to the road which has historic-period tools indicative of mining activities. The last period of use is representative of World War II and post-war developments. The Project Site may have been subjected to use by General George Patton's Desert Training Center – California/Arizona Maneuver Area (DTC). The Project Site does not have evidence of any camp areas or other major maneuver areas documented in the region. However, the southern portion of the Project Site has many tracks that appear to have been made from tracked vehicles.

In addition, the remains of at least two homesteads from the historic era are still present on the Project Site. The oldest one is visible on 1947 historic aerials and may have pre-dated DTC use of the area. The second homestead dates to approximately 1953 and appears to have been abandoned by the 1980s, based on aerial photograph evidence.

CEQA regulations require consideration of archaeological sites through the lens of answering specific questions, including: 1) whether a resource can be found to be eligible for the CRHR or the National Register; or 2) meet the definition of a 'unique archaeological resource' and have the potential to contribute data to previously defined research questions. The 11 isolated occurrences, by their singular nature, possess minimal information and are not considered eligible for inclusion on the National Register. The remaining 53 resources were identified as either historic or prehistoric sites and are not considered as eligible for listing in the National Register.

However, a potential remains for buried historic or archaeological resources to be unearthed during ground disturbing activities which may result in a potentially significant impact. Implementation of **Mitigation Measure CUL-1**, which would require worker awareness training to train construction workers to look for resources, and **CUL-2**, which would require an archaeologist be present on-site during all ground disturbing activities, would reduce impacts to any historical or archaeological resources to less than significant.

# Threshold (c): Would the Project disturb any human remains, including those interred outside of formal cemeteries?

The Project Site is not located on a known cemetery. Construction of the Project would involve grading, which may have the potential to uncover unknown human remains. However, if human remains are found during Project ground-disturbing activities, the Project would be required to adhere to HSC Sections 7050.5-7055 and PRC Sections 5097.98 and 5097.99. HSC Sections 7050.5-7055 describe the general provisions for treatment of human remains. Specifically, HSC Section 7050.5 states that no further disturbance shall occur until the San Bernardino County Medical Examiner-Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. In the event of an unanticipated discovery of human remains, the San Bernardino County Medical Examiner-Coroner would be notified immediately. If the human remains are determined to be prehistoric, the Medical Examiner-Coroner would notify the NAHC, which would notify the MLD. The MLD would complete an inspection of the site within 48 hours of notification and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials. Compliance with these regulations would ensure impacts to human remains resulting from the Project would be less than significant.

Operation of the Project would not require substantial ground disturbing activities, such as grading or excavation. Therefore, it is not anticipated that Project operation would encounter subsurface human remains, and impacts to human remains during Project operation are not anticipated.

# 4.4.7 Cumulative Impacts

Chapter 3.0, Environmental Setting, of this Draft EIR provides a list of related projects that would have the potential to be considered in a cumulative context with the Project's incremental contribution. These projects are summarized in **Table 3-2**, *Related Projects*, and shown in **Figure 3-1**, *Related Projects in the Planning Area*. Similar to the Project, ground-disturbing activities associated with related projects would have the potential to uncover previously unknown archaeological resources and human remains. The Project, in combination with cumulative development, could contribute to the loss of undeveloped land,

which could potentially contain cultural resources. Determinations regarding the significance of impacts of the related projects on cultural resources would be made on a case-by-case basis and, if necessary, the applicants of the related projects would be required to implement appropriate mitigation measures. It is not anticipated that cumulative impacts would be significant. Therefore, the Project's contribution to cumulative impacts associated with impacts to sensitive receptors would be less than cumulatively considerable.

# 4.4.8 Mitigation Measures

In order to minimize potential impacts to cultural resources, the following mitigation measures would be implemented:

CUL-1 Prior to the initiation of ground-disturbing activities, the Project Applicant and construction manager shall conduct a Worker Education Awareness Program (WEAP) to alert field personnel to the possibility of buried prehistoric or historic cultural deposits. Development of the WEAP shall include consultation with a Qualified Archaeologist meeting the Secretary of the Interior standards. The WEAP shall provide an overview of potential significant archaeological resources that could be encountered during ground disturbing activities, including how to identify prehistoric or historic cultural deposits, to facilitate worker recognition, avoidance, and subsequent immediate notification to the Qualified Archaeologist. Prior to ground disturbing activities, the Project Applicant shall provide evidence to the San Bernardino County Land Use Services Department that construction personnel have conducted a WEAP. Documentation shall be retained demonstrating that construction personnel attended the training.

In the event that cultural resources are discovered during Project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease, and a Qualified Archaeologist shall be hired to assess the find. The Qualified Archaeologist shall have the authority to stop or divert construction excavation as necessary. Work on the other portions of the Project outside of the buffered area may continue during this assessment period. Additionally, the applicable Indian Tribe (as described in **Mitigation Measure TCR-1**) shall be contacted regarding any pre-contact and/or historic-era finds and be provided information after the Qualified Archaeologist makes their initial assessment of the nature of the find, so as to provide Tribal input with regard to significance and treatment.

**CUL-2** If significant pre-contact and/or post-contact cultural resources, as defined by CEQA, are discovered, and avoidance cannot be ensured, the Qualified Archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to the County Planning Division and applicable Indian Tribe for review and comment. The Qualified Archaeologist shall monitor the remainder of the Project and implement the plan accordingly.

# 4.4.9 Level of Significance after Mitigation

With the implementation of Mitigation Measures CUL-1 and CUL-2, the Project's impacts on cultural resources would be reduced to less than significant.

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# 4.5 GEOLOGY AND SOILS

#### 4.5.1 Introduction

This section discusses the environmental setting, existing conditions, regulatory context, and potential impacts of the Project in relation to geology and soils. This section also considers the potential impacts to paleontological resources. Information contained in this section is derived from the Preliminary Geotechnical Report, dated May 10, 2022, prepared by Terracon Consultants, Inc. (Appendix F).

# 4.5.2 Existing Environmental Setting

#### **Regional Setting**

The Project Site is situated within the Mojave Desert Geomorphic Province in Southern California. Geologic structures in this province trend mostly northwest, in contrast to the prevailing east–west trend in the neighboring Transverse Ranges Geomorphic Province to the west. The Mojave Desert Province extends into lower California and is bounded by the Garlock fault to the north, the San Andreas fault to the west, and the Nevada and Arizona borders to the east. Surficial geologic units surrounding and within the Project Site consist mainly of marine and continental sedimentary rocks from the Pleistocene epoch, including older alluvium, lake, playa, and terrace deposits.<sup>1</sup>

#### Project Site

#### Soils and Groundwater

Based on the results of borings performed for the Preliminary Geotechnical Report, on-site soils generally consist of medium dense to very dense sand with varying amounts of silt and gravel. Groundwater was not observed in the borings while drilling, which reached a maximum depth explored of 51.5 feet below ground surface (bgs), or for the short duration in which the borings could remain open.

#### Faults and Seismicity

The Project Site is located in central California, which is a seismically active area. The type and magnitude of seismic hazards affecting the Project Site are dependent on the distance to causative faults, the intensity, and the magnitude of the seismic event. The Project Site is not located within an Alquist-Priolo Earthquake Fault Zone based on a review of the State Fault Hazard Maps. As calculated using the United States Geologic Survey (USGS) Unified Hazard Tool, the fault which is considered to have the most significant effect at the Project Site from a design standpoint, has a maximum credible earthquake magnitude of 5.71 and is located approximately 8.5 miles from the Project Site.

#### **Ground Shaking**

One of the seismic hazards most likely to impact the Project Site is strong ground shaking during an earthquake. Ground shaking from seismic events could reach the Project Site if certain seismic factors (e.g., Richter magnitude, focal depth, distance from the causative fault, source mechanism, duration of

<sup>&</sup>lt;sup>1</sup> California Department of Conservation, *Geologic Map of California*, 2022. Available at <u>https://maps.conservation.ca.gov/cgs/gmc/</u>. Accessed on August 4, 2022.

shaking, high rock accelerations, type of surficial deposits or bedrock, degree of consolidation of surficial deposits, etc.) occur nearby.

#### Surface Rupture

Surface rupture is an offset of the ground surface when fault rupture extends to the Earth's surface. Normal- and reverse- (collectively called dip-slip) faulting surface ruptures feature vertical offsets, while strike-slip faulting produces lateral offsets. Many earthquake surface ruptures are combinations of both. Surface rupture represents a primary or direct potential hazard to structures built on an active fault zone. However, the Project Site is not located in an Alquist-Priolo Earthquake Fault Zone that is prone to surface rupture. No faults are known to align through the Project Site.

#### Landslides

Landslides occur when slopes become unstable and collapse. Landslides are typically caused by natural factors such as fractured or weak bedrock, heavy rainfall, erosion, earthquake activity, and fire, but also by human alteration of topography and water content. A landslide at the Project Site is unlikely because of the regional planar topography. No ancient landslides are shown on geologic maps of the region, and no indications of landslides were observed by during site investigations.

#### Liquefaction

Liquefaction is a mode of ground failure that results from the generation of high pore water pressures during earthquake ground shaking, causing loss of shear strength. Liquefaction is typically a hazard where loose sandy soils exist below groundwater. The California Geological Survey (CGS) has designated certain areas as potential liquefaction hazard zones. These are areas considered at a risk of liquefaction-related ground failure during a seismic event, based upon mapped surficial deposits and the presence of a relatively shallow water table.

The Project Site is not mapped for liquefaction hazard by the CGS. Based on the anticipated depth to groundwater, liquefaction hazard potential at the site is considered low. Other geologic hazards related to liquefaction, such as lateral spreading, are therefore also considered low.

# 4.5.3 Regulatory Setting

#### Federal

#### Earthquake Hazards Reduction Act

The Earthquake Hazards Reduction Act is also cited as the "National Earthquake Hazards Reduction Program Reauthorization Act of 2018." The purpose of the Earthquake Hazards Reduction Act is to reduce the risks to life and property from future earthquakes in the United States through the establishment and maintenance of an effective earthquake hazards reduction program. Loss of life, injury, destruction of property, and economic and social disruption can be substantially reduced through the development and implementation of earthquake hazard reduction measures. To accomplish this, the Act established the National Earthquake Hazards Reduction Program (NEHRPA). This program was significantly amended in November 1990 by the National Earthquake Hazards Reduction Program act, which refined the description of agency responsibilities, program goals, and objectives. The NEHRPA designates the Federal Emergency Management Agency (FEMA) as the lead agency of the program and assigns it several
planning, coordinating, and reporting responsibilities. Other NEHRPA agencies include the National Institute of Standards and Technology, National Science Foundation, and USGS.

#### International Building Code

Published by the International Code Council, the scope of the International Building Code (IBC) covers major aspects of construction and design of structures and buildings, except for detached one- and two-family dwellings and townhouses not more than three stories in height. The IBC contains provisions for structural engineering design. Published every three years (most recently in 2021) by the International Code Council, the IBC addresses the design and installation of structures and building systems through requirements emphasizing performance. The IBC includes codes governing structural strength (including seismic loads and wind loads) as well as fire- and life-safety provisions covering accessibility, egress, occupancy, and roofs.

#### State

#### Alquist-Priolo Earthquake Fault Zoning Act of 1972

The Alquist-Priolo Earthquake Fault Zoning Act (Public Resources Code [PRC] Section 2621 et seq.) was passed in 1972 to mitigate the hazard of surface faulting to structures for human occupancy. The Alquist-Priolo Earthquake Fault Zoning Act's main purpose is to prevent the construction of buildings used for human occupancy on the surface trace of active faults. The Act addresses only the hazard of surface fault rupture and is not directed toward other earthquake hazards.

The law requires the State Geologist to establish regulatory zones (known as Earthquake Fault Zones or, prior to January 1, 1994, Special Studies Zones) around the surface traces of active faults and to issue appropriate maps. The maps are distributed to all affected cities, counties, and State agencies for their use in planning and controlling new or renewed construction. Local agencies must regulate most development projects within the zones. Projects include all land divisions and most structures for human occupancy.

Before a project can be permitted for construction, cities and counties must require a geologic investigation to demonstrate that proposed buildings will not be constructed across active faults. An evaluation and written report of a specific site must be prepared by a licensed geologist. If an active fault is found, a structure for human occupancy cannot be placed over the trace of the fault and must be set back from the fault.

#### Seismic Hazards Mapping Act of 1990

The Seismic Hazards Mapping Act of 1990 (7.8 PRC 2690-2699.6) directs the CGS to identify and map areas prone to earthquake hazards of liquefaction, earthquake-induced landslides, and amplified ground shaking. The purpose of this Act is to reduce the threat to public safety and minimize the loss of life and property by identifying and mitigating these seismic hazards. The Seismic Hazard Zone maps identify where a site investigation is required, and the site investigation determines whether structural design or modification of the Project Site is necessary for safer development. The Seismic Hazards Mapping Act requires site-specific geotechnical investigations identifying the seismic hazard and formulating mitigation measures, when needed, prior to permitting most developments designed for human occupancy within the Zones of Required Investigation.

#### California Building Code

The State establishes minimum standards for building design and construction through the California Building Code (CBC) (California Code of Regulations [CCR] Title 24). The CBC is based on the Uniform Building Code (UBC), which is used widely throughout the United States (generally adopted on a state-by-state or district-by-district basis) and has been modified for conditions in California. The UBC establishes minimum standards related to development, seismic design, building siting, and grading. The purpose of the UBC is to provide minimum standards to preserve public peace, health, and safety by regulating the design, construction, quality of materials, certain equipment, location, grading, use, occupancy, and maintenance of all buildings and structures. UBC standards address foundation design, shear wall strength, and other structural related conditions. Upon incorporation, the City adopted the 1997 edition of the UBC.

#### Public Resources Code Sections 5097.5 and 30244

Other state requirements for paleontological resource management are included in PRC Section 5097.5 and Section 30244. Section 5097.5 prohibits "knowing and willful" excavation, removal, destruction, injury, and defacement of any paleontological feature on state lands (lands under state, county, city, district, or public authority jurisdiction, or the jurisdiction of a public corporation), except where the agency with jurisdiction has granted express permission.

#### California Environmental Quality Act

Paleontological resources are afforded protection by environmental legislation set forth under CEQA. Appendix G of the CEQA Guidelines provides guidance relative to significant impacts on paleontological resources, stating that "a project will normally result in a significant impact on the environment if it will ...disrupt or adversely affect a paleontological resource or site or unique geologic feature." The Guidelines do not define "directly or indirectly destroy," but it can be reasonably interpreted as the physical damage, alteration, disturbance, or destruction of a paleontological resource. The Guidelines also do not define the criteria or process to determine whether a paleontological resource is significant or "unique."

#### Local

#### San Bernardino County Countywide Plan/Policy Plan

The County adopted the Countywide Plan/Policy Plan (Policy Plan) in October 2020. The Policy Plan provides an update of the County's General Plan addressing physical, social and economic issues facing the unincorporated portions of the County. The Policy Plan also provides an expansion of the County's General Plan to address supportive service for adults and children, healthcare service, public safety, and other regional county services provided to both incorporated and unincorporated areas.

Relevant policies of the San Bernardino County Policy Plan are as follows:

#### Cultural Resources Element

Policy CR-2.3Paleontological and archaeological resources. We strive to protect paleontological<br/>and archaeological resources from loss or destruction by requiring that new<br/>development include appropriate mitigation to preserve the quality and integrity of

these resources. We require new development to avoid paleontological and archeological resources whenever possible. If avoidance is not possible, we require the salvage and preservation of paleontological and archeological resources.

Hazards Element

- **Policy HZ-1.2** All development must be located outside of the Alquist Priolo earthquake fault zone. For any lot or parcel that does not have sufficient buildable area outside this hazard area requires adequate mitigation measures that allow occupants to shelter in place and to have sufficient time to evacuate during times of extreme weather and natural disaster.
- Policy HZ-1.6 New critical and essential facilities should be located outside of hazard areas whenever feasible.
- **Policy HZ-1.7** Underground utilities must be designed to withstand seismic forces, accommodate ground settlement, and hardened to fire risk.

#### San Bernardino County Emergency Operations Plan

The San Bernardino County Emergency Operations Plan (EOP) is a comprehensive, single source of guidance and procedures for the County to prepare for and respond to significant or catastrophic natural, environmental, or conflict-related risks that result in situations requiring coordinated response. The EOP further provides guidance regarding management concepts relating to the County's response to and abatement of various emergency situations, identifies organizational structures and relationships, and describes responsibilities and functions necessary to protect life and property.

The plan is consistent with the requirements of the Standardized Emergency Management System (SEMS) as defined in Government Code Section 8607(a) and the National Incident Management System (NIMS) as defined by presidential executive orders for managing response to multi-agency and multi-jurisdictional emergencies. As such, the plan is flexible enough to use in all emergencies and will facilitate response and short-term recovery activities. SEMS/NIMS incorporate the use of the Incident Command System (ICS), mutual aid, the operational area concept, and multi/interagency coordination.

#### San Bernardino County Hazard Mitigation Plan

The Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) is a "living document" that should be reviewed, monitored, and updated to reflect changing conditions and new information. As required, the MJHMP must be updated every 5 years to remain in compliance with regulations and federal mitigation grant conditions. The plan includes information regarding hazards being faced by the County, the San Bernardino County Fire Protection District, the San Bernardino County Flood Control District, and those board-governed special districts administered by the San Bernardino County Special Districts Department.

# Society for Vertebrate Paleontology Guidelines

The Society of Vertebrate Paleontology (SVP) has established guidelines for the identification, assessment, and mitigation of adverse impacts on nonrenewable paleontological resources. Most practicing paleontologists in the nation adhere closely to the SVP's assessment, mitigation, and monitoring requirements outlined in these guidelines, which were approved through a consensus of professional

paleontologists and are the standard. The SVP outlined criteria for screening the paleontological potential of rock units (High, Undetermined, Low) and established assessment and mitigation procedures tailored to such potential.

As defined by the SVP (2010:11) significant nonrenewable paleontological resources are:

Fossils and fossiliferous deposits here restricted to vertebrate fossils and their taphonomic and associated environmental indicators. This definition excludes invertebrate or paleobotanical fossils except when present within a given vertebrate assemblage. Certain invertebrate and plant fossils may be defined as significant by a project paleontologist, local paleontologist, specialists, or special interest groups, or by lead agencies or local governments.

As defined by the SVP (1995:26), significant fossiliferous deposits are:

A rock unit or formation which contains significant nonrenewable paleontologic resources, here defined as comprising one or more identifiable vertebrate fossils, large or small, and any associated invertebrate and plant fossils, traces, and other data that provide taphonomic, taxonomic, phylogenetic, ecologic, and stratigraphic information (ichnites and trace fossils generated by vertebrate animals, e.g., trackways, or nests and middens which provide datable material and climatic information). Paleontologic resources are considered to be older than recorded history and/or older than 5,000 years BP [before present].

Based on the significance definitions of the SVP, all identifiable vertebrate fossils are considered to have significant scientific value. This position is adhered to because vertebrate fossils are relatively uncommon, and only rarely will a fossil locality yield a statistically significant number of specimens of the same genus. Therefore, every vertebrate fossil found has the potential to provide significant new information on the taxon it represents, its paleoenvironment, and/or its distribution. Furthermore, all geologic units in which vertebrate fossils have previously been found are considered to have high sensitivity. Identifiable plant and invertebrate fossils are considered significant if found in association with vertebrate fossils or if defined as significant by project paleontologists, specialists, or local government agencies.

A geologic unit known to contain significant fossils is considered to be "sensitive" to adverse impacts if there is a high probability that earth-moving or ground-disturbing activities in that rock unit will either directly or indirectly disturb or destroy fossil remains. Paleontological sites indicate that the containing sedimentary rock unit or formation is fossiliferous. The limits of the entire rock formation, both areal and stratigraphic, therefore define the scope of the paleontological potential in each case.

Fossils are contained within surficial sediments or bedrock, and are, therefore, not observable or detectable unless exposed by erosion or human activity. Therefore, without natural erosion or humancaused exposure, paleontologists cannot know either the quality or quantity of fossils. As a result, even in the absence of surface fossils, it is necessary to assess the sensitivity of rock units based on their known potential to produce significant fossils elsewhere within the same geologic unit (both within and outside of the study area), a similar geologic unit, or based on whether the unit in question was deposited in a type of environment that is known to be favorable for fossil preservation. Monitoring by experienced paleontologists greatly increases the probability that fossils will be discovered during ground-disturbing activities and that, if the fossils are significant, that successful mitigation and salvage efforts may be undertaken.

# 4.5.4 Thresholds of Significance

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to geology and soils if it would:

- **Threshold (a):** Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:
  - i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault. (Refer to Division of Mines and Geology Special Publication 42).
  - ii. Strong seismic ground shaking.
  - iii. Seismic-related ground failure, including liquefaction.
  - iv. Landslides.
- Threshold (b): Result in substantial soil erosion or the loss of topsoil;
- **Threshold (c):** Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse;
- **Threshold (d):** Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property;
- Threshold (e): Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater; or
- **Threshold (f):** Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature.

As identified in Section 6.5: Effects Found Not to Be Significant, impacts related to Threshold (a), (c), (d), and (e) were determined to have no impact or a less than significant impact and do not require further analysis in the Draft EIR.

# 4.5.5 Methodology

The Project's Preliminary Geotechnical Report presents the results of Terracon's preliminary subsurface exploration and geotechnical engineering services performed to provide information and recommendations relative to:

- Subsurface soil conditions
- Foundation design and construction
- Groundwater conditions
- Thermal Resistivity Test Results

- Site preparation and earthwork
- Seismic site classification per CBC
- Field Electrical Resistivity Test Results
- Roadway design and construction

# 4.5.6 **Project Impact Analysis**

#### Threshold (b): Would the Project result in substantial soil erosion or the loss of topsoil?

#### Construction

Soil erosion may result during Project construction, as grading and construction can loosen surface soils and make soils susceptible to the effects of wind and water movement across the surface. However, all construction activities related to the Project would be subject to compliance with the CBC. Additionally, all development associated with the Project would be subject to compliance with the requirements set forth in the National Pollutant Discharge Elimination System (NPDES) Storm Water General Construction Permit (Order No. 99- 08-DWQ) for construction activities. Compliance with the CBC and the NPDES would minimize effects from erosion and ensure consistency with Colorado River Regional Water Quality Control Board (CRRWQCB) requirements, which establish water quality standards for the groundwater and surface water of the region.

A stormwater pollution prevention plan (SWPPP) is required as part of the grading permit submittal package. The SWPPP will provide a schedule for the implementation and maintenance of erosion control measures, and a description of the erosion control measures, including appropriate design details, to be implemented during the Project's construction phase. The SWPPP would consider the full range of erosion control best management practices (BMPs) with consideration for any additional site-specific and seasonal conditions, as appropriate.

Erosion control BMPs include but are not limited to the application of straw mulch, hydroseeding, the use of geotextiles, plastic covers, silt fences, and erosion control blankets, as well as construction site entrance/outlet tire washing. The State General Permit also requires that those implementing SWPPPs meet prerequisite qualifications that demonstrate the skills, knowledge, and experience necessary to implement those plans. NPDES requirements would substantially reduce the potential for erosion or topsoil loss to occur in association with new development. Water quality features intended to reduce construction-related erosion impacts will be clearly noted on the grading plans for implementation by the construction contractor.

The Preliminary Geotechnical Report provides a review of the Project Site and the potential soil conditions at the time of the borings, and variations that were not initially detected in the preliminary boring program may result in potentially significant impacts from soil erosion. Therefore, additional recommendations to minimize the potential for erosion to occur during Project construction, including limiting certain construction activities to dry weather, covering exposed excavated dirt during periods of rain, and protecting excavated areas from flooding with temporary berms would be required to be implemented under **Mitigation Measure GEO-1**. With implementation of all required erosion and runoff control measures and **Mitigation Measure GEO-1**, erosion impacts resulting from Project construction would be reduced to less than significant.

# Operations

Without the use of asphalt concrete or other hardened material to surface the Project's access roads, there is an increased potential for erosion and deep rutting of the roads to occur during Project operations. Although post construction traffic is anticipated to only consist of intermittent pickup trucks for operations and maintenance personnel, un-surfaced roadways will display varying levels of wear and deterioration over time. Thus, variations that were not initially detected in the preliminary boring program

may result in potentially significant impacts from soil erosion. Therefore, additional recommendations such as a site inspection program, preventative maintenance activities to slow the rate of deterioration, and preservation of the roadway investment are recommended under **Mitigation Measure GEO-1**. With implementation of all required erosion and runoff control measures and **Mitigation Measure GEO-1**, erosion impacts resulting from Project operation would be reduced to less than significant.

# Threshold (f): Would the Project directly or indirectly destroy a unique paleontological resource or site or unique geological feature?

The Countywide Plan Program Draft EIR prepared a Paleontological Resources Technical Report for the County and evaluated paleontological resources throughout the County.<sup>2</sup> The Paleontological Resources Technical Report noted that the broad alluvial plains in the East Desert Region generally have low to high sensitivity where younger alluvium is mapped at the surface and likely overlies older, high-sensitivity sediments. These older, high-sensitivity sediments are often exposed along the margins of these alluvial plains as they approach the intervening mountain ranges.

The Project Site itself is generally characterized by younger alluvium (Q) and older alluvium (Qoa) formation types which have low to high paleontological sensitivity. With disturbance of these soils, there is a potential for the Project to unearth unknown paleontological resources. However, the Project would implement the Countywide Plan Program EIR mitigation measures to address potential impacts to paleontological resources. With implementation of **Mitigation Measure GEO-2**, in areas of documented or inferred paleontological resource presence, the Project would require consultation with a qualified paleontologist. If any paleontological resources are discovered, **Mitigation Measure GEO-3** would require proper avoidance of the area and proper handling and documentation of the resource. With implementation of **Mitigation Measures GEO-3**, impacts would be reduced to less than significant.

# 4.5.7 Cumulative Impacts

Chapter 3.0, Environmental Setting, of this Draft EIR provides a list of related projects that would have the potential to be considered in a cumulative context with the Project's incremental contribution. These projects are summarized in **Table 3-2**, *Related Projects*, and shown in **Figure 3-1**, *Related Projects in the Planning Area*.

# **Geology and Soils**

Due to the site-specific nature of geological conditions (i.e., soils, geological features, subsurface features, seismic features, etc.), impacts associated with geology and soils are typically assessed on a project-by-project basis rather than on a cumulative basis. However, as with the Project, cumulative projects would be subject to the same established guidelines and regulations pertaining to building design and seismic safety, including those set forth in the CBC and other applicable regulations. In addition, the cumulative projects would not have the potential to directly or indirectly exacerbate existing seismic conditions cumulatively in combination with the Project. Therefore, considering the existing regulatory requirements

<sup>2</sup> County of San Bernardino, San Bernardino Countywide Plan Draft Program Environmental Impact Report, Appendix F: Paleontological Resources Technical Report, June 2018. Available at <u>https://countywideplan.com/wp-</u> <u>content/uploads/sites/68/2021/01/F\_PaleontologicalResourcesTechnicalReport\_report.pdf</u>. Accessed September 28, 2022. and regulations that would apply to all development, the Project's contribution to cumulative impacts associated with geology and soils would not be considerable.

#### **Paleontological Resources**

With regard to paleontological resources, some of the cumulative projects may include excavation on parcels that have been disturbed or are already developed, as well as on open space parcels, and would have the potential to disturb geological units that are sensitive for paleontological resources. Generally, however, projects that require substantial excavation would be subject to environmental review under CEQA. If the potential for significant impacts on paleontological resources were identified given the site characteristics and development program of the cumulative projects, the cumulative projects would be required to implement mitigation measures to avoid significant impacts. Implementation of similar mitigation measures, as proposed under the Project, would ensure that cumulative effects from cumulative projects are considered less than significant.

The Project would be required to comply with **Mitigation Measures GEO-1** through **GEO-3** to reduce the potential for significant impacts on geology and soils to less-than-significant levels. Therefore, the Project's contribution to cumulative impacts associated with paleontological resources would not be considerable.

# 4.5.8 Mitigation Measures

In order to minimize potential impacts to geology and soils, the following mitigation measures should be implemented:

- **GEO-1** Prior to the issuance of grading permits, the Applicant shall retain a California registered and licensed engineer to design the Project facilities in agreement with geologic conditions identified at the Project site. A Final Geotechnical Report shall be produced to account for variations likely occur in the subgrade which were not detected in the preliminary boring program. All grading and construction on-site shall adhere to the specifications, procedures, and site conditions contained in the final design plans, which shall be fully compliant with the recommendations of the California-registered and licensed professional engineer and consistent with the recommendations in the Preliminary Geotechnical Engineering Report prepared by Terracon Consultants, Inc. in 2022.
- **GEO-2** In areas of documented or inferred paleontological resource presence, the Applicant shall require consultation with a qualified paleontologist meeting the standards of Society for Vertebrate Paleontology. The initial consultation may be provided by a qualified paleontologist on staff at the County Museum. The qualified paleontologist will determine the degree of paleontological resource sensitivity, as outlined below, and will recommend a paleontological resources monitoring and mitigation plan (PRMMP). This plan will address specifics of monitoring and mitigation for the development project, and will take into account updated geologic mapping, geotechnical data, updated paleontological records searches, and any changes to the regulatory framework. This PRMMP should usually meet the standards of the SVP (2010), unless the project is on BLM land or subject to federal jurisdiction, in which case the BLM standards should be used.

The following provisions would be typical for units mapped with the different levels of paleontological sensitivity:

- High (SVP)/Class 4–5 (BLM)—All projects involving ground disturbances in previously undisturbed areas sediments mapped as having high paleontological sensitivity will be monitored by a qualified paleontological monitor (BLM, 2009; SVP, 2010) on a full-time basis under the supervision of the Qualified Paleontologist. Undisturbed sediments may be present at the surface, or present in the subsurface, beneath earlier developments. This monitoring will include inspection of exposed sedimentary units during active excavations within sensitive geologic sediments. The monitor will have authority to temporarily divert activity away from exposed fossils to evaluate the significance of the find and, should the fossils be determined to be significant, professionally and efficiently recover the fossil specimens and collect associated data. Paleontological monitors will use field data forms to record pertinent location and geologic data, will measure stratigraphic sections (if applicable), and collect appropriate sediment samples from any fossil localities.
- Low to High (SVP)/Class 2 to Class 4–5 (BLM)—All projects involving ground disturbance in previously undisturbed areas mapped with low-to-high paleontological sensitivity will only require monitoring if construction activity will exceed the depth of the low sensitivity surficial sediments. The underlying sediments may have high paleontological sensitivity, and therefore work in those units might require paleontological monitoring, as designated by the Qualified Paleontologist in the PRMMP. When determining the depth at which the transition to high sensitivity occurs and monitoring becomes necessary, the Qualified Paleontologist should take into account: a) the most recent local geologic mapping, b) depths at which fossils have been found in the vicinity of the project area, as revealed by the museum records search, and c) geotechnical studies of the project area, if available.
- Low (SVP)/Class 2–3 (BLM)—All projects involving ground disturbance in previously undisturbed areas mapped as having low paleontological sensitivity should incorporate worker training to make construction workers aware that while paleontological sensitivity is low, fossils might still be encountered. The Qualified Paleontologist should oversee this training as well as remain on-call in the event fossils are found. Paleontological monitoring is usually not required for sediments with low (Low / Class 2–3) paleontological sensitivity.
- None (SVP)/Class 1 (BLM)—Projects determined by the Qualified Paleontologist to involve ground-disturbing activities in areas mapped as having no paleontological sensitivity (i.e., plutonic igneous or high-grade metamorphic rocks) will not require further paleontological mitigation measures.
- **GEO-3** In the event of any fossil discovery, regardless of depth or geologic formation, construction work will halt within a 50-ft. radius of the find until its significance can be determined by a Qualified Paleontologist. Significant fossils will be recovered, prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and deposited in a designated paleontological curation facility in accordance with the standards of the SVP (2010) and BLM (2009). A repository will be identified and a curatorial arrangement will be signed prior to collection of the fossils. Although the San Bernardino County Museum is specified as the repository for fossils found in the county

in the current General Plan, the museum may not always be available as a repository. Therefore, any accredited institution may serve as a repository.

# 4.5.9 Level of Significance After Mitigation

With the implementation of **Mitigation Measures GEO-1** through **GEO-3**, the Project's impacts on geology and soils would be reduced to less than significant.

# 4.6 GREENHOUSE GAS EMISSIONS

# 4.6.1 Introduction

This section addresses potential impacts to global climate change resulting from the emissions into and retention of greenhouse gases (GHG) in the atmosphere. These emissions may result from the construction and/or operation of the Project. The following discussion addresses the existing conditions of the affected environment pertaining to GHG emissions, evaluates the Project's consistency with applicable goals and policies, identifies and analyzes environmental impacts, and recommends measures to reduce or avoid potential adverse impacts anticipated from implementation of the Project, as applicable. Information contained in this section is derived from the Air Quality and Greenhouse Gas Emissions Impact Analysis, dated September 19, 2022, prepared by Vista Environmental (Appendix C).

# 4.6.2 Environmental Setting

#### **Background Information**

Climate change is a recorded change in the Earth's average weather measured by variables such as wind patterns, storms, precipitation, and temperature. Global temperatures are moderated by naturally occurring atmospheric gases, including water vapor, carbon dioxide  $(CO_2)$ , methane  $(CH_4)$ , and nitrous oxide  $(N_2O)$ , which are known as GHGs. Historical records show that global temperature changes have occurred naturally in the past, such as during previous ice ages. However, it has been shown that emissions from human activities, such as electricity production and vehicle use, have elevated the concentration of these gases in the atmosphere. The years 2016 and 2020 are tied for the Earth's warmest year since recordkeeping began in 1880, and 16 of the 17 warmest years in the instrumental record occurred since 2001. The average global temperature has risen more than 2.0 °F (1.2 °C) since 1880.

The global atmospheric concentration of  $CO_2$  has increased from a pre-industrial (roughly 1750) value of about 280 parts per million (ppm) to a monthly mean value of 414 ppm in December 2020<sup>1</sup>. According to the Global Greenhouse Emissions Data website<sup>2</sup>, the breakdown of global GHG emissions by sector consists of: 25 percent from electricity and heat production; 21 percent from industry; 24 percent from agriculture, forestry and other land use activities; 14 percent from transportation; 6 percent from building energy use; and 10 percent from all other sources of energy use.

According to Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2018, prepared by the U.S. Environmental Protection Agency (U.S. EPA) on April 13, 2020, in 2018, total U.S. GHG emissions were 6,676.6 million metric tons of CO<sub>2</sub> equivalent (MMTCO<sub>2</sub>e) emissions. Total U.S. emissions have increased by 3.7 percent between 1990 and 2018, which is down from a high of 15.2 percent above 1990 levels in 2007. Emissions increased by 2.9 percent or 188.4 MMTCO<sub>2</sub>e between 2017 and 2018. The recent increase in GHG emissions was largely driven by an increase in CO<sub>2</sub> emissions from fossil fuel combustion, a result of multiple factors including greater heating and cooling needs due to a colder winter and hotter summer in 2018 compared to 2017.

<sup>&</sup>lt;sup>1</sup> National Oceanic and Atmospheric Administration, Global Monitoring Laboratory. Available at <u>https://gml.noaa.gov/</u>. Accessed August 10, 2022.

<sup>&</sup>lt;sup>2</sup> United States Environmental Protection Agency (U.S. EPA), Global Greenhouse Gas Emissions Data. Available at <u>https://www.epa.gov/ghgemissions/global-greenhouse-gas-emissions-data#Sector</u>. Accessed August 10, 2022.

According to the California Air Resources Board, the State of California created 425 MMTCO<sub>2</sub>e in 2018. The breakdown of California GHG emissions by sector consists of 39.9 percent from transportation, 21.0 percent from industrial, 14.8 percent from electricity generation, 7.7 percent from agriculture, 6.1 percent from residential buildings, and 3.7 percent from commercial buildings. In 2018, GHG emissions were 0.8 MMTCO<sub>2</sub>e higher than 2017 levels and are 6 MMTCO<sub>2</sub>e below the 2020 GHG limit of 431 MMTCO<sub>2</sub>e established by Assembly Bill (AB) 32.

#### **Greenhouse Gases**

GHGs are global pollutants and are, therefore, unlike criteria air pollutants such as ozone ( $O_3$ ), particulate matter (PM10 and PM2.5), and toxic air contaminants (TACs), which are pollutants of regional and local concern (see Section 4.2, Air Quality, of this Draft EIR). While pollutants with localized air quality effects have relatively short atmospheric lifetimes (generally on the order of a few days), GHGs have relatively long atmospheric lifetimes, ranging from one year to several thousand years. Long atmospheric lifetimes allow GHGs to disperse around the globe. Therefore, GHG effects are global, as opposed to the local and/or regional air quality effects of criteria air pollutant and TAC emissions.

AB 32 defines GHGs as any of the following compounds:  $CO_2$ , methane (CH<sub>4</sub>), nitrous oxide (N<sub>2</sub>O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF<sub>6</sub>).  $CO_2$ , followed by CH<sub>4</sub> and N<sub>2</sub>O, are the most common GHGs that result from human activity.

GHGs have varying global warming potential (GWP). The GWP is the potential of a gas or aerosol to trap heat in the atmosphere. It is the "cumulative radiative forcing effect of a gas over a specified time horizon resulting from the emission of a unit mass of gas relative to a reference gas."<sup>3</sup> The reference gas for GWP is CO<sub>2</sub>. Therefore, CO<sub>2</sub> has a GWP of 1. The other main GHGs that have been attributed to human activity include CH<sub>4</sub>, which has a GWP of 30, and N<sub>2</sub>O, which has a GWP of 273. **Table 4.6-1**, *Global Warming Potentials, Atmospheric Lifetimes, and Abundances of GHGs*, presents the GWP and atmospheric lifetimes of common GHGs.

Gas	Atmospheric Lifetime (year) <sup>1</sup>	Global Warming Potential (100 Year Horizon) <sup>2</sup>	Atmospheric Abundance
Carbon Dioxide (CO <sub>2</sub> )	50-200	1	379 ppm
Methane (CH <sub>4</sub> )	9-15	25	1,774 ppb
Nitrous Oxide (N <sub>2</sub> O)	114	298	319 ppb
HFC-23	270	14,800	18 ppt
HFC-134a	14	1,430	35 ppt
HFC-152a	1.4	124	3.9 ppt
PFC: Tetrafluoromethane (CF <sub>4</sub> )	50,000	7,390	74 ppt
PFC: Hexafluoroethane (C <sub>2</sub> F <sub>6</sub> )	10,000	12,200	2.9 ppt
Sulfur Hexafluoride (SF <sub>6</sub> )	3,200	22,800	5.6 ppt

Notes:

<sup>1</sup> Defined as the half-life of the gas.

<sup>2</sup> Compared to the same quantity of CO<sub>2</sub> emissions and is based on the Intergovernmental Panel On Climate Change (IPCC) 2007 standard, which is utilized in CalEEMod (Version 2016.3.2).

Definitions: ppm = parts per million; ppb = parts per billion; ppt = parts per trillion

<sup>3</sup> U.S. EPA, Understanding Global Warming Potentials. Available at <u>https://www.epa.gov/ghgemissions/understanding-global-warming-potentials</u>. Accessed August 10, 2022.

Human-caused sources of  $CO_2$  include combustion of fossil fuels (coal, oil, natural gas, gasoline and wood). Data from ice cores indicate that  $CO_2$  concentrations remained steady prior to the current period for approximately 10,000 years. Concentrations of  $CO_2$  have increased in the atmosphere since the industrial revolution.  $CH_4$  is the main component of natural gas and also arises naturally from anaerobic decay of organic matter. Human-caused sources of natural gas include landfills, fermentation of manure, and cattle farming. Human-caused sources of N<sub>2</sub>O include combustion of fossil fuels and industrial processes such as nylon production and production of nitric acid.

Other GHGs are present in trace amounts in the atmosphere and are generated from various industrial or other uses. The sources of GHG emissions, GWP, and atmospheric lifetime of GHGs are all important variables to be considered in the process of calculating CO<sub>2</sub>e for discretionary land use projects that require a climate change analysis.

# 4.6.3 Regulatory Setting

# Federal

To date, no national standards have been established for GHG reduction targets, nor have any regulations or legislation been enacted specifically to address climate change and GHG emissions reduction at an individual project level. Various efforts have been promulgated at the federal level to improve fuel economy and energy efficiency to address climate change and its associated effects.

#### Energy Independence and Security Act of 2007

The Energy Independence and Security Act of 2007 (December 2007), among other key measures, requires the following, which would aid in the reduction of national GHG emissions:

- Increase the supply of alternative fuel sources by setting a mandatory Renewable Fuel Standard requiring fuel producers to use at least 36 billion gallons of biofuel in 2022.
- Set a target of 35 miles per gallon for the combined fleet of cars and light trucks by model year 2020 and direct the National Highway Traffic Safety Administration (NHTSA) to establish a fuel economy program for medium- and heavy-duty trucks and create a separate fuel economy standard for work trucks.
- Prescribe or revise standards affecting regional efficiency for heating and cooling products and procedures for new or amended standards, energy conservation, energy efficiency labeling for consumer electronic products, residential boiler efficiency, electric motor efficiency, and home appliances.

#### U.S. Environmental Protection Agency Endangerment Finding

The U.S. EPA authority to regulate GHG emissions stems from the U.S. Supreme Court decision in *Massachusetts v. EPA* (2007). The Supreme Court ruled that GHGs meet the definition of air pollutants under the existing federal Clean Air Act (CAA) and must be regulated if these gases could be reasonably anticipated to endanger public health or welfare. Responding to the Court's ruling, the U.S. EPA finalized an endangerment finding in December 2009. Based on scientific evidence it found that six GHGs (CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, and SF<sub>6</sub>) constitute a threat to public health and welfare. Thus, it is the Supreme Court's interpretation of the existing Act and the U.S. EPA's assessment of the scientific evidence that form the basis for the U.S. EPA's regulatory actions.

#### Presidential Executive Order 13783

Presidential Executive Order (EO) 13783, Promoting Energy Independence and Economic Growth (March 28, 2017), orders all federal agencies to apply cost-benefit analyses to regulations of GHG emissions and evaluations of the social cost of carbon, nitrous oxide, and CH<sub>4</sub>.

#### Federal Vehicle Standards

In response to the U.S. Supreme Court ruling discussed above, EO 13432 was issued in 2007 directing the U.S. EPA, the Department of Transportation, and the Department of Energy to establish regulations that reduce GHG emissions from motor vehicles, non-road vehicles, and non-road engines by 2008. In 2009, the NHTSA issued a final rule regulating fuel efficiency and GHG emissions from cars and light-duty trucks for model year 2011, and in 2010, the U.S. EPA and NHTSA issued a final rule regulating cars and light-duty trucks for model years 2012 to 2016.

In 2010, an Executive Memorandum was issued directing the Department of Transportation, Department of Energy, U.S. EPA, and NHTSA to establish additional standards regarding fuel efficiency and GHG reduction, clean fuels, and advanced vehicle infrastructure. In response to this directive, the U.S. EPA and NHTSA proposed stringent, coordinated federal GHG and fuel economy standards for model years 2017 2025 light-duty vehicles. The proposed standards projected to achieve 163 grams per mile of CO<sub>2</sub> in model year 2025, on an average industry fleet-wide basis, which is equivalent to 54.5 miles per gallon (mpg) if this level were achieved solely through fuel efficiency. The final rule was adopted in 2012 for model years 2017 to 2021, and NHTSA intends to set standards for model years 2022 to 2025 in a future rulemaking. On January 12, 2017, the U.S. EPA finalized its decision to maintain the current GHG emissions standards for model years 2022 to 2025 cars and light trucks. It should be noted that the U.S. EPA is currently proposing to freeze the vehicle fuel efficiency standards at their planned 2020 level (37 mpg), canceling any future strengthening (currently 54.5 mpg by 2026).

In addition to the regulations applicable to cars and light-duty trucks described above, in 2011, the U.S. EPA and NHTSA announced fuel economy and GHG standards for medium- and heavy-duty trucks for model years 2014 to 2018. The standards for  $CO_2$  emissions and fuel consumption are tailored to three main vehicle categories: Combination tractors, heavy-duty pickup trucks and vans, and vocational vehicles. According to the U.S. EPA, this regulatory program will reduce GHG emissions and fuel consumption for the affected vehicles by 6 to 23 percent over the 2010 baselines.

In August 2016, the U.S. EPA and NHTSA announced the adoption of the phase two program related to the fuel economy and GHG standards for medium- and heavy-duty trucks. The phase two program will apply to vehicles with model year 2018 through 2027 for certain trailers, and model years 2021 to 2027 for semi-trucks, large pickup trucks, vans, and all types and sizes of buses and work trucks. The final standards are expected to lower CO<sub>2</sub> emissions by approximately 1.1 billion metric tons and reduce oil consumption by up to 2 billion barrels over the lifetime of the vehicles sold under the program.

# State

#### California Air Resources Board

CARB has the primary responsibility for implementing State policy to address global climate change; however, State regulations related to global climate change affect a variety of State agencies. CARB, which

is a part of the California Environmental Protection Agency (Cal/EPA), is responsible for the coordination and administration of both the federal and State air pollution control programs within California. In this capacity, the CARB conducts research, sets the California Ambient Air Quality Standards (CAAQS), compiles emission inventories, develops suggested control measures, provides oversight of local programs, and prepares the State Implementation Plan (SIP). In addition, the CARB establishes emission standards for motor vehicles sold in California, consumer products (e.g., hairspray, aerosol paints, and barbeque lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

In 2008, CARB approved a Climate Change Scoping Plan that proposes a "comprehensive set of actions designed to reduce overall carbon GHG emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, create new jobs, and enhance public health."<sup>4</sup> The Climate Change Scoping Plan has a range of GHG reduction actions which include direct regulations, alternative compliance mechanisms, monetary and nonmonetary incentives, voluntary actions, and market-based mechanisms such as a cap-and-trade system. In 2014, CARB approved the First Update to the Climate Change Scoping Plan that identifies additional strategies moving beyond the 2020 targets to the year 2050. On December 14, 2017, CARB adopted California's 2017 Climate Change Scoping Plan<sup>5</sup> that provides specific statewide policies and measures to achieve the 2030 GHG reduction target of 40 percent below 1990 levels by 2030 and the aspirational 2050 GHG reduction target of 80 percent below 1990 levels by 2050. In addition, the State has passed the following laws directing CARB to develop actions to reduce GHG emissions, which are listed below in chronological order, with the most current first.

#### **Executive Order S-3-05**

On June 1, 2005, Governor Arnold Schwarzenegger signed EO S-3-05, which proclaims that California is vulnerable to the impacts of climate change. It declares that increased temperatures could reduce snowpack in the Sierra Nevada Mountains, could further exacerbate California's air quality problems, and could potentially cause a rise in sea levels. In an effort to avoid or reduce the impacts of climate change, EO S-3-05 calls for a reduction in GHG emissions to the year 2000 level by 2010, to year 1990 levels by 2020, and to 80 percent below 1990 levels by 2050. It should be noted that the 80 percent below 1990 levels by 2050 is currently an aspirational goal by EO S-3-05 but has not yet been codified into law.

The EO directed the secretary of the Cal/EPA to coordinate a multi-agency effort to reduce GHG emissions to the target levels. The secretary also submits biannual reports to the governor and California Legislature describing the progress made toward the emissions targets, the impacts of global climate change on California's resources, and mitigation and adaptation plans to combat these impacts. To comply with the EO, the secretary of Cal/EPA created the California Climate Action Team (CAT), made up of members from various State agencies and commissions. The team released its first report in March 2006. The report proposed to achieve the targets by building on the voluntary actions of California businesses, local governments, and communities and through State incentive and regulatory programs.

 <sup>&</sup>lt;sup>4</sup> California Air Resources Board (CARB), Climate Change Scoping Plan 2008. Available at <u>https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2008-scoping-plan-documents</u>. Accessed August 10, 2022.

<sup>&</sup>lt;sup>5</sup> CARB, California's 2017 Climate Change Scoping Plan, 2017. Available at <u>http://www.arb.ca.gov/cc/scopingplan/scoping plan 2017.pdf</u>. Accessed August 10, 2022.

#### Executive Order B-30-15, Senate Bill 32, & Assembly Bill 197 (Statewide Year 2030 GHG Targets)

California EO B-30-15 (April 29, 2015) set an "interim" statewide emission target to reduce greenhouse emissions to 40 percent below 1990 levels by 2030 and directed State agencies with jurisdiction over greenhouse gas emissions to implement measures pursuant to statutory authority to achieve this 2030 target and the 2050 target of 80 percent below 1990 levels. Specifically, the EO directed CARB to update the Scoping Plan to express this 2030 target in metric tons. AB 197 (September 8, 2016) and SB 32 (September 8, 2016) codified into statute the GHG emissions reduction targets of at least 40 percent below 1990 levels by 2030 as detailed in EO B-30-15. AB 197 also requires additional GHG emissions reporting to CARB from stationary sources and requires CARB to provide sources of GHG emissions on its website that is broken down to sub-county levels. AB 197 requires CARB to consider the social costs of emissions impacting disadvantaged communities.

#### Assembly Bill 32, The California Global Warming Solutions Act of 2006

The California Legislature adopted the public policy position that global warming is "a serious threat to the economic well-being, public health, natural resources, and the environment of California" (California Health and Safety Code, Section 38501). Further, the State Legislature has determined that:

"...the potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra Nevada snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and an increase in the incidences of infectious disease, asthma, and other human health-related problems."

The State Legislature also states that:

"Global warming will have detrimental effects on some of California's largest industries, including agriculture, wine, tourism, skiing, recreational and commercial fishing, and forestry. It will also increase the strain on electricity supplies necessary to meet the demand for summer air-conditioning in the hottest parts of the State (California Health and Safety Code, Section 38501)."

These public policy statements became law with the enactment of AB 32, the California Global Warming Solutions Act of 2006, signed by Governor Arnold Schwarzenegger in September 2006. AB 32 is now codified as Sections 38500 through 38599 of the California Health and Safety Code.

AB 32 requires that Statewide GHG emissions be reduced to 1990 levels by 2020. This reduction is to be accomplished through an enforceable Statewide cap on GHG emissions to be phased in starting in 2012. AB 32 directs CARB to establish this Statewide cap based on 1990 GHG emissions levels, to disclose how it arrived at the cap, to institute a schedule to meet the emissions cap, and to develop tracking, reporting, and enforcement mechanisms. Emissions reductions under AB 32 are to include carbon sequestration projects and best management practices that are technologically feasible and cost effective. As of the date of this Draft EIR, CARB has not promulgated GHG emissions or reporting standards that are directly applicable to the Project.

#### Senate Bill 350 (Clean Energy & Pollution Reduction Act)

SB 350 was signed into law in September 2015 and establishes tiered increases to the Renewable Portfolio Standard (RPS). SB 350 requires 40 percent of the State's energy supply come from renewable sources by 2024, 45 percent by 2027, and 50 percent by 2030. SB 350 also established a new goal to double the energy-efficiency savings in electricity and natural gas through energy efficiency and conservation measures.

#### Executive Order B-55-18 and Senate Bill 100 (100 Percent Clean Energy Act of 2018)

In 2018, SB 100, known as the 100 Percent Clean Energy Act of 2018, declares that CARB should plan for 100 percent total retail sales of electricity in California come from eligible renewable energy resources and zero-carbon resources by the end of 2045. SB 100 also set interim goals, accelerating the RPS requirement to 50 percent from renewable energy sources by 2026 and 60 percent by 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy resources so that the total kilowatt hours of those products sold to their retail end-use customers achieve 44 percent of retail sales by December 31, 2024, 52 percent by December 31, 2027, and 60 percent by December 31, 2030. In addition to targets under AB 32 and SB32, EO B-55-18 establishes a carbon neutrality goal for the state of California by 2045, and sets a goal to maintain net negative emissions thereafter. The EO directs the CNRA, Cal/EPA, the Department of Food and Agriculture, and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

#### Assembly Bill 341

AB 341 makes a legislative declaration that it is the policy goal of the State that not less than 75 percent of solid waste generated be source reduced, recycled, or composted by the year 2020, and would require the department, by January 1, 2014, to provide a report to the Legislature that provides strategies to achieve that policy goal and also includes other specified information and recommendations. The bill would allow the department to provide the report required by the bill in conjunction with the annual progress report, if the combined report is submitted by January 1, 2014. Furthermore, AB 341 would require a business, defined to include a commercial or public entity, that generates more than 4 cubic yards of commercial solid waste per week or is a multifamily residential dwelling of 5 units or more to arrange for recycling services, on and after July 1, 2012.

#### **Executive Order S-1-07**

EO S-1-07 proclaims that the transportation sector is the main source of GHG emissions in California, generating more than 40 percent of statewide emissions. The EO establishes a goal to reduce the carbon intensity of transportation fuels sold in California by at least 10 percent by 2020. This order also directs the CARB to determine whether the Low Carbon Fuel Standard (LCFS) could be adopted as a discrete early-action measure as part of the effort to meet the mandates in AB 32.

#### Executive Order S-14-08

In 2008, the California Governor issued EO S-14-08, which expands the State's Renewable Energy Standard to 33 percent renewable power by 2020. Additionally, EO S-21-09 (2009) directs CARB to adopt regulations requiring that 33 percent of electricity sold in the state come from renewable energy by 2020.

#### Executive Order N-79-20

On September 23, 2020, the California Governor issued EO N-79-20 that requires all new passenger cars and trucks and commercial drayage trucks sold in California to be zero-emissions by the year 2035 and all medium-heavy-duty vehicles (commercial trucks) sold in the state to be zero-emissions by 2045 for all operations where feasible. EO N-79-20 also requires all off-road vehicles and equipment to transition to 100 percent zero-emission equipment, where feasible, by 2035.

# Title 24, Part 6, Energy Efficiency Standards

California Code of Regulations (CCR) Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) was first established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. Although it was not originally intended to reduce GHG emissions, electricity production by fossil fuels results in GHG emissions; and energy efficient buildings require less electricity. Therefore, increased energy efficiency results in decreased GHG emissions.

Title 24 standards are updated on a three-year schedule, and the most current 2019 standards went into effect on January 1, 2020. The Title 24 standards now require that the average new home built in California will now use zero-net-energy and that nonresidential buildings will use about 30 percent less energy than the 2016 standards due mainly to lighting upgrades. The 2019 standards also encourage the use of battery storage and heat pump water heaters and require the more widespread use of LED lighting as well as improve a building's thermal envelope through high performance attics, walls, and windows. The 2019 standards also require improvements to ventilation systems by requiring highly efficient air filters to trap hazardous air particulates as well as improvements to kitchen ventilation systems.

# *Title 24, Part 11, California Green Building Standards*

CCR Title 24, Part 11: California Green Building Standards (Title 24) was developed in response to continued efforts to reduce GHG emissions associated with energy consumption. The most current version is the 2019 CALGreen Code, which became effective on January 1, 2020, and replaced the 2016 CALGreen Code.

The CALGreen Code contains requirements for construction site selection, storm water control during construction, construction waste reduction, indoor water use reduction, material selection, natural resource conservation, site irrigation conservation, and more. The code provides for design options that allow the designer to determine how best to achieve compliance for a given site or building condition. The code also requires building commissioning, which is a process for verifying that all building systems (e.g., heating and cooling equipment and lighting systems) are functioning at their maximum efficiency.

The CALGreen Code provides standards for bicycle parking, carpool/vanpool/electric vehicle spaces, light and glare reduction, grading and paving, energy-efficient appliances, renewable energy, graywater systems, water-efficient plumbing fixtures, recycling and recycled materials, pollutant controls (including moisture control and indoor air quality), acoustical controls, storm water management, building design, insulation, flooring, and framing, among others. Implementation of the CALGreen Code measures reduced energy consumption and vehicle trips and encourages the use of alternative-fuel vehicles, which reduces pollutant emissions. Some of the notable changes in the 2019 CALGreen Code over the prior 2016 CALGreen Code include: an alignment of building code engineering requirements with the national standards that include anchorage requirements for solar panels, provide design requirements for buildings in tsunami zones, increase MERV for air filters from 8 to 13, increase electric vehicle charging requirements in parking areas, and set minimum requirements for use of shade trees.

#### Executive Order B-29-15 and Senate Bill X7-7, Water Conservation Measures

The Water Conservation Act of 2009 sets an overall goal of reducing per-capita urban water use by 20 percent by December 31, 2020. The state is required to make incremental progress toward this goal by reducing per-capita water use by at least 10 percent by December 31, 2015. This is an implementing measure of the Water Sector of the AB 32 Scoping Plan. Reduction in water consumption directly reduces the energy necessary and the associated emissions to convene, treat, and distribute the water. It also reduces emissions from wastewater treatment.

The Department of Water Resources adopted a regulation on February 16, 2011, that sets forth criteria and methods for exclusion of industrial process water from the calculation of gross water use for purposes of urban water management planning. The regulation would apply to all urban retail water suppliers required to submit an Urban Water Management Plan, as set forth in the Water Code, Division 6, Part 2.6, Sections 10617 and 10620.

On April 1, 2015, the California Governor issued EO B-29-15 that directed the State Water Resources Control Board (SWRCB) to impose restrictions to achieve a statewide 25-percent reduction in urban water usage and directed the Department of Water Resources to replace 50 million square feet of lawn with drought-tolerant landscaping through an update to the State's Model Water Efficient Landscape Ordinance. The Ordinance also requires installation of more efficient irrigation systems, promotes usage of greywater and on-site stormwater capture, and limits the turf planted in new residential landscapes to 25 percent of the total area and restricts turf from being planted in median strips or in parkways unless the parkway is next to a parking strip where a flat surface is required to enter and exit vehicles. EO B-29-15 and SB X7-7 would reduce GHG emissions associated with the energy used to transport and filter water.

#### Senate Bill 375

SB 375 was adopted September 2008 in order to support the State's climate action goals to reduce GHG emissions through coordinated regional transportation planning efforts, regional GHG emission reduction targets, and land use and housing allocation. SB 375 requires CARB to set regional targets for GHG emissions reductions from passenger vehicle use. In 2010, CARB established targets for 2020 and 2035 for each Metropolitan Planning Organization (MPO) within the state. It was up to each MPO to adopt a sustainable communities strategy (SCS) that will prescribe land use allocation in that MPO's Regional Transportation Plan (RTP) to meet CARB's 2020 and 2035 GHG emission reduction targets. These reduction targets are required to be updated every eight years. In June 2017, CARB released Staff Report Proposed Update to the SB 375 Greenhouse Gas Emission Reduction Target, which provided recommended GHG emissions reduction targets for Southern California Association of Governments (SCAG) of 8 percent by 2020 and 21 percent by 2035.

The 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (2020-2045 RTP/SCS or Connect SoCal) was adopted September 3, 2020 and provides a 2035 GHG emission reduction target of 19 percent reduction over the 2005 per capita emissions levels. The Connect SoCal include new initiatives

of land use, transportation and technology to meet the 2035 new 19 percent GHG emission reduction target for 2035. CARB is also charged with reviewing SCAG's RTP/SCS for consistency with its assigned targets.

City and County land use policies, including General Plans, are not required to be consistent with the RTP and associated SCS. However, new provisions of CEQA incentivize, through streamlining and other provisions, qualified projects that are consistent with an approved SCS and categorized as "transit priority projects."

#### Assembly Bill 1493

AB 1493, adopted September 2002, also known as Pavley I, requires the development and adoption of regulations to achieve the maximum feasible reduction of GHGs emitted by noncommercial passenger vehicles, light-duty trucks, and other vehicles used primarily for personal transportation in the state. Although setting emissions standards on automobiles is solely the responsibility of the U.S. EPA, the federal CAA allows California to set state-specific emission standards on automobiles if the State first obtains a waiver from the U.S. EPA. The U.S. EPA granted California that waiver on July 1, 2009. The emission standards become increasingly more stringent through the 2016 model year. California is also committed to further strengthening these standards beginning in 2017 to obtain a 45-percent GHG reduction from 2020 model year vehicles.<sup>6</sup>

The second set of regulations, "Pavley II," was developed in 2010 and is being phased in between model years 2017 through 2025 with the goal of reducing GHG emissions by 45 percent by the year 2020 as compared to the 2002 fleet. The Pavley II standards were developed by linking the GHG emissions and formerly separate toxic tailpipe emissions standards previously known as the "LEV III" (third stage of the Low Emission Vehicle standards) into a single regulatory framework. The new rules reduce emissions from gasoline-powered cars as well as promote zero-emissions auto technologies such as electricity and hydrogen through increasing the infrastructure for fueling hydrogen vehicles. In 2009, the U.S. EPA granted California the authority to implement the GHG standards for passenger cars, pickup trucks, and sport utility vehicles; and these GHG emissions standards are currently being implemented nationwide. However, U.S. EPA has performed a midterm evaluation of the longer-term standards for model years 2022-2025; and, based on the findings of this midterm evaluation, the U.S. EPA has proposed to amend the CAFE and GHG emissions standards for light vehicles for model years 2021 through 2026. The U.S. EPA's proposed amendments do not include any extension of the legal waiver granted to California by the 1970 Clean Air Act (CCAA) which has allowed the State to set tighter standards for vehicle pipe emissions than the U.S. EPA standards. On September 20, 2019, California filed suit over the U.S. EPA decision to revoke California's legal waiver that has been joined by 22 other states.

# Regional

# Mojave Desert Air Quality Management District

The Mojave Desert Air Quality Management District (MDAQMD) is the agency principally responsible for comprehensive air pollution control that includes GHG emissions in the San Bernardino County portion of the Mojave Desert Air Basin (MDAB). To that end, as a regional agency, the MDAQMD works directly with

<sup>&</sup>lt;sup>6</sup> CARB, Staff Report: Initial Statement of Reasons for Rulemaking. Available at <u>https://www.arb.ca.gov/regact/2009/ghgpv09/ghgpv09/ghgpvisor.pdf</u>. Accessed August 10, 2022.

the County and incorporated communities as well as the military bases within the MDAB to control GHG emissions within the MDAB.

# Southern California Association of Governments – Connect SoCal: Regional Transportation Plan/Sustainable Communities Strategy

On September 3, 2020, SCAG, the MPO for the region's six counties and 191 cities, formally adopted the 2020–2045 RTP/SCS. The SCS portion of the 2020-2045 RTP/SCS highlights strategies for the region to reach the regional target of reducing GHGs from autos and light-duty trucks by 8 percent per capita by 2020, and 19 percent by 2035 (compared to 2005 levels). Specifically, these strategies:

- Focus growth near destinations and mobility options;
- Promote diverse housing choices;
- Leverage technology innovations;
- Support implementation of sustainability policies; and
- Promote a green region.

Furthermore, the 2020-2045 RTP/SCS discusses a variety of land use tools to help achieve the statemandated reductions in GHG emissions through reduced per capita vehicle miles traveled (VMT). Some of these tools include center-focused placemaking, focusing on priority growth areas, job centers, transit priority areas, as well as high quality transit areas and green regions, which are regions that require the built environment and natural resource areas coexist in a well-balanced land use pattern that encourages mutual co-benefits.

#### Local

#### San Bernardino County Countywide Plan/Policy Plan

The County adopted the Countywide Plan/Policy Plan (Policy Plan) in October 2020. The Policy Plan provides an update of the County's General Plan addressing physical, social and economic issues facing the unincorporated portions of the County. The Policy Plan also provides an expansion of the County's General Plan to address supportive service for adults and children, healthcare service, public safety, and other regional county services provided to both incorporated and unincorporated areas.

The County's abundant natural resources are integral to the quality of life, community identities, and economic success. Appropriately managed, they provide safe air and water for the people and the environment, improve the health of the residents and workers, attract visitors from around the world, and sustain the productivity of our local and national economies. Adequate regional landfill capacity that provides for the safe disposal of solid waste, and efficient waste diversion and collection for unincorporated areas. Relevant policies of the San Bernardino County Policy Plan are summarized below:

#### Infrastructure and Utilities Element

**Goal IU-4 Solid Waste:** Adequate regional landfill capacity that provides for the safe disposal of solid waste, and efficient waste diversion and collection for unincorporated areas.

Policy IU-4.3	<b>Waste diversion</b> . We shall meet or exceed state waste diversion requirements, augment future landfill capacity, and reduce greenhouse gas emissions and use of natural resources through reduction, reuse, or recycling of solid waste.
Goal IU-5	<b>Power and Communications:</b> Unincorporated area residents and businesses have access to reliable power and communication systems.
Policy IU-5.5	<b>Energy and fuel facilities</b> . We encourage the development and upgrade of energy and regional fuel facilities in areas that do not pose significant environmental or public health and safety hazards, and in a manner that is compatible with military operations and local community identity.

#### Natural Resources Element

Goal NR-1:	<b>Air Quality:</b> Air quality that promotes health and wellness of residents in San Bernardino County through improvements in locally-generated emissions.
Policy NR-1.1	<b>Land Use</b> . We promote compact and transit-oriented development countywide and regulate the types and locations of development in unincorporated areas to minimize vehicle miles traveled and greenhouse gas emissions.
Policy NR-1.7	<b>Greenhouse gas reduction targets</b> . We strive to meet the 2040 and 2050 greenhouse gas emission reduction targets in accordance with state law.
Policy NR-1.9	<b>Building design and upgrades.</b> We use the CalGreen Code to meet energy efficiency standards for new buildings and encourage the upgrading of existing buildings to incorporate design elements, building materials, and fixtures that

Renewable Energy and Conservation Element<sup>7</sup>

**RE Goal 1** The County will pursue energy efficiency tools and conservation practices that optimize the benefits of renewable energy.

improve environmental sustainability and reduce emissions.

- Policy RE-1.1 Energy Conservation and Efficiency. Continue implementing the energy conservation and efficiency measures identified in the County of San Bernardino Greenhouse Gas Emissions Reduction Plan.
- **RE Goal 4** The County will establish a new era of sustainable energy production and consumption in the context of sound resource conservation and renewable energy development practices that reduce greenhouse gases and dependency on fossil fuels.
- Policy RE-4.1 **Development Standards.** Apply standards to the design, siting, and operation of all renewable energy facilities that protect the environment, including sensitive biological resources, air quality, water supply and quality, cultural, archaeological, paleontological and scenic resources.

<sup>&</sup>lt;sup>7</sup> The Renewable Energy and Conservation Element was adopted in 2017 and amended in February 2019.

RE Goal 6	County regulatory systems will ensure that renewable energy facilities are designed, sited, developed, operated and decommissioned in ways compatible with our communities, natural environment, and applicable environmental and cultural resource protection laws.		
Policy RE-6.4	<b>State Renewable Energy Goal.</b> Support the Governor's initiative to obtain 50% of the energy consumed in the state through RE generation sources by 2040.		
Policy RE-6.4.1	<b>Energy Conservation Policies and Strategies.</b> Continue to implement policies and strategies for energy conservation by the County in the Greenhouse Gas Emissions Reduction Plan, including capture and use of landfill gas, installation of		

renewable energy systems and use of alternative fuels.

#### San Bernardino County Greenhouse Gas Emissions Reduction Plan

The County of San Bernardino Greenhouse Gas Emissions Reduction Plan (GHGRP Plan), prepared September 2011, requires the reduction of 159,423 metric tons of CO<sub>2</sub> equivalent emissions (MTCO<sub>2</sub>e) per year from new development by 2020 as compared to the unmitigated conditions. The Greenhouse Gas Emissions Development Review Processes (GHG Review Processes), prepared for the County in March 2015, provides project level direction on how the County plans to achieve the reduction in GHG Emissions. The GHGRP helps the County to prioritize actions to reduce GHG emissions and serves as the roadmap for implementing communitywide programs and policies. However, the County's GHGRP does not align with the Statewide goals beyond 2020 and thus the GHGRP is not consistent with the criteria within CEQA Guidelines Section 15183.5 for the post-2020 period. Consequently, the County is currently working with the San Bernardino County Transportation Authority (SBCTA) to update the County's current GHGRP to address SB 32 and post-2020 GHG emission reductions. As the Project would be constructed and operational post-2020, the 2011 GHGRP was not utilized for consistency analysis.

#### San Bernardino County Regional Greenhouse Gas Reduction Plan

In response to SB 32, a project partnership, led by SBCTA, has complied an inventory of GHG emissions and developed reduction measures in the Regional Greenhouse Gas Reduction Plan (RGHGRP) that could be adopted by the partnership jurisdictions, including the County.<sup>8</sup> A final draft of the RGHGRP was made public in March 2021 and was formally adopted on September 21, 2021. The RGHGRP plan contains substantial evidence to support its recommendations for reducing GHG emissions within the region to achieve the GHG reduction goal set by SB 32. Therefore, the RGHGRP was utilized for project consistency analysis.

# 4.6.4 Thresholds of Significance

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to GHG emissions if it would:

<sup>&</sup>lt;sup>8</sup> San Bernardino Council of Governments, San Bernardino County Regional Greenhouse Gas Reduction Plan, 2021. Available at <u>https://www.gosbcta.com/wp-</u> <u>content/uploads/2019/09/San Bernardino Regional GHG Reduction Plan Main Text Mar 2021.pdf</u>. Accessed August 10, 2022.

- **Threshold (a):** Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment.
- **Threshold (b):** Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases.

According to the MDAQMD, a project is significant if it triggers or exceeds the most appropriate evaluation criteria. In general, for GHG emissions, the MDAQMD significance emission threshold is 100,000 tons of  $CO_2e$  or 90,718.5 MTCO<sub>2</sub>e per year. A project identified as having significant impacts on GHG emissions by the MDAQMD must incorporate mitigation measures sufficient to reduce its impact to a level that is not significant. A project that cannot be mitigated to a level that is not significant must incorporate all feasible mitigation measures.

# 4.6.5 Methodology

The GHG emission impacts created by the Project have been analyzed through use of CalEEMod Version 2020.4.0. CalEEMod is a computer model published by the South Coast Air Quality Management District (SCAQMD) for estimating air pollutant emissions. The CalEEMod program uses the EMFAC2017 computer program to calculate the emission rates specific for the Mojave Desert portion of the County for employee, vendor and haul truck vehicle trips and the OFFROAD2011 computer program to calculate emission rates for heavy equipment operations. EMFAC2017 and OFFROAD2011 are computer programs generated by CARB that calculates composite emission rates for vehicles. Emission rates are reported by the program in grams per trip and grams per mile or grams per running hour.

The Project characteristics in the CalEEMod model were set to a project location of the Mojave Desert portion of the County, a Climate Zone of 10, utility company of Southern California Edison, and an opening year of 2024 was utilized in this analysis. In addition, the EMFAC off-model adjustment factors for gasoline light duty vehicle to account for the SAFE Vehicle rule was selected in the CalEEMod model conducted.

# 4.6.6 **Project Impact Analysis**

# Threshold (a): Would the Project, generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

# Construction

Project construction would result in GHG emissions, primarily associated with the use of off-road construction equipment, on-road vendor trucks, and worker vehicles. The County's GHG Plan recommends that construction emissions be amortized over a 30-year project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies. Thus, the Project's total construction GHG emissions were calculated, amortized over 30 years, and added to the total operational emissions.

A summary of the results is shown below in **Table 4.6-2**, *Project Related Construction Greenhouse Gas Annual Emissions*.

	Greenhouse Gas Emissions (Metric Tons per Year)			
Category	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	CO₂e
Construction				
Year 2023	877.67	0.11	0.02	887.28
Year 2024	232.19	0.02	< 0.01	234.73
Total Construction Emissions	1,109.86	0.13	0.03	1,122.01
Amortized Construction Emissions <sup>1</sup> (30 Years)	37.00	<0.01	<0.01	37.40
Notes:				

<sup>1</sup> Construction emissions amortized over 30 years as recommended in the SCAQMD GHG Working Group on November 19, 2009. Source: See Appendix C.

**Table 4.6-2** shows that the construction activities would create a total of 1,122.01 MTCO<sub>2</sub>e, which equates to 37.40 MTCO<sub>2</sub>e per year when amortized over 30 years. As with Project-generated construction air quality pollutant emissions, GHG emissions generated during construction of the Project would be short-term in nature, lasting only for the duration of the construction period, and would not represent a long-term source of GHG emissions. Because there is no separate GHG threshold for construction, the evaluation of significance is discussed in the operational emissions analysis below.

#### **Operations**

Project operation would generate GHG emissions through motor vehicle trips to and from the Project Site, energy use (natural gas and generation of electricity consumed by the Project), solid waste disposal, and generation of electricity associated with water supply, treatment, and distribution and wastewater treatment. Because the Project would have no major stationary emission sources, operation of the proposed solar farm would result in substantially lower emissions than Project construction.

**Table 4.6-3**, *Project Related Operational Greenhouse Gas Annual Emissions*, shows that operational activities would create 1,426.62 MTCO<sub>2</sub>e per year and, when combined with the amortized construction and decommissioning emissions, the Project would create a total of 1,501.42 MTCO<sub>2</sub>e per year, which is within the MDAQMD threshold of 100,000 MTCO<sub>2</sub>e per year. Therefore, a less than significant generation of GHG emissions would occur from development of the Project. Impacts would be less than significant.

	Greenhouse Gas Emissions (Metric Tons per Year)			
Category	CO <sub>2</sub>	CH4	N <sub>2</sub> O	CO₂e
Operations				
Area Sources <sup>1</sup>	0.02	<0.01	0.00	0.02
Energy Usage and Production <sup>2</sup>	1,380.96	0.12	0.01	1,388.08
Mobile Sources <sup>3</sup>	23.89	<0.01	<0.01	24.29
Solid Waste <sup>4</sup>	5.74	0.34	0.00	14.22
Water and Wastewater <sup>5</sup>	0.02	0.00	0.00	0.02
Total Operational Emissions	1,410.62	0.46	0.02	1,426.62
Total Annual Emission (Construction & Operations)	1,447.61	0.46	0.02	1,464.02
County of San Bernardino GHG Emissions Reduction Plan Screening Threshold			100,000	

Table 4.6-3: Project Related Operational Greenhouse Gas Annual Emissions

	Greenhouse Gas Emissions (Metric Tons per Year)			
Category	CO <sub>2</sub>	CH₄	N <sub>2</sub> O	CO <sub>2</sub> e
Exceed Thresholds?		No		
Notes: <sup>1</sup> Area sources consist of GHG emissions from consumer products, arcl <sup>2</sup> Energy usage consists of GHG emissions from electricity used and ger <sup>3</sup> Mobile sources consist of GHG emissions from vehicles. <sup>4</sup> Waste includes the CO <sub>2</sub> and CH <sub>4</sub> emissions created from the solid wa <sup>5</sup> Water includes GHG emissions from electricity used for transport of Source: See Appendix C.	nitectural coatings, and nerated on-site. ste placed in landfills. water and processing c	d landscaping equip of wastewater.	ment.	

# Threshold (b): Would the Project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Since the San Bernardino County GHGRP is not consistent with the State's post-2020 GHG reduction goals, the GHGRP was not used in this analysis. Instead, the consistency analysis for the Project is based off the Project's consistency with the RGHGRP, the County's Policy Plan, and CARB's 2017 Scoping Plan Update.

#### Consistency with the 2021 Regional GHG Reduction Plan

The RGHGRP includes GHG inventories, and local GHG reduction strategies for each of the 25 Partnership jurisdictions including the unincorporated areas of San Bernardino County. This RGHGRP is not mandatory for the Partnership jurisdictions. Instead, it provides information that can be used by Partnership jurisdictions, if they choose so, to develop individual climate action plans (CAPs). The RGHGRP describes the reductions that are possible if San Bernardino Council of Governments (SBCOG) and every Partnership jurisdiction were to adopt the reduction strategies as described in the document.

The RGHGRP demonstrates how Unincorporated San Bernardino County could achieve its selected goal, "of reducing its community GHG emissions to a level that is 40% below its 2020 GHG emissions level by 2030."<sup>9</sup> The majority (approximately 80 percent) of unincorporated San Bernardino County's GHG reduction goal will be achieved through state efforts, such as the Pavley vehicle standards, the State's low carbon fuel standard, the RPS, and other state measures to reduce GHG emissions in the on-road, solid waste and building energy sectors in 2030. According to the RGHGRP, the remaining 20 percent need to meet its goal could be achieved "primarily through the following local measures, in order of reductions achieved: Solar Installation for Existing Commercial/Industrial (Energy-8); Waste Diversion and Reduction (Waste-2); Solar Installation for Existing Housing (Energy-7)."<sup>10</sup> As shown on Table 3-75 of the RGHGRP<sup>11</sup>, the County has proposed to adopt ten GHG reduction measures, including increasing the energy efficiency of and solar installation upon new and existing buildings, Transportation Demand Management and Synchronization, expanded bike lanes, waste diversion and reduction, water efficient landscaping, and other measures. It should be noted that the County has not adopted its jurisdictional plan.

<sup>&</sup>lt;sup>9</sup> San Bernardino Council of Governments, San Bernardino County Regional Greenhouse Gas Reduction Plan, 2021, Page 3-228. Available at <u>https://www.gosbcta.com/wp-</u> <u>content/uploads/2019/09/San Bernardino Regional GHG Reduction Plan Main Text Mar 2021.pdf</u>. Accessed September 29, 2022.

<sup>&</sup>lt;sup>10</sup> San Bernardino Council of Governments, San Bernardino County Regional Greenhouse Gas Reduction Plan, 2021, Page 3-228.

<sup>&</sup>lt;sup>11</sup> San Bernardino Council of Governments, San Bernardino County Regional Greenhouse Gas Reduction Plan, 2021, Pages 3-232 and 3-233.

Of the 10 GHG reduction measures proposed, the following two apply to the County directly and not project owners or occupants: OnRoad-3 encouraging signal synchronization and OnRoad-4 encouraging bike lanes; thus, these measures are not applicable to the Project. The following six measures do not apply to the Project because they are directed towards sources the Project would not include: Energy-1 improving the energy efficiency of new buildings; Energy-7 encouraging solar installation for existing housing; Energy-8 encouraging solar installation for existing commercial and industrial; Energy-10 encouraging urban tree planting for shading and energy savings; Offroad-2 directed at heavy duty diesel truck idling; and PS-1 proposing a GHG performance standard for new development. The Project is designed to be consistent with GHG reduction measure Water-3, encouraging water-efficient landscaping practices, and would be operated consistent with Waste-2 encouraging increased waste diversion and reduction if adopted and as applicable.

Assuming the County is successful in adopting its plan substantively as written, the above discussion demonstrates that the Project would be consistent with the applicable portions of the jurisdictional GHG reduction measures contained in the RGHGRP, and impacts would be less than significant.

# Consistency with the San Bernardino County Countywide Plan/Policy Plan

The San Bernardino Policy Plan includes goals and policies that all new projects are required to comply with, as applicable. Project consistency with the policy plan goals and policies is discussed in **Table 4.6-4**, *Consistency with GHG Policies in the County's Policy Plan*. As shown in **Table 4.6-4**, the Project would be consistent with the policy plan and impacts would be less than significant.

Policy No.	San Bernardino County Policy Plan Policy	Project Consistency with Policy
IU-4.3	<b>Waste diversion.</b> We shall meet or exceed state waste diversion requirements, augment future landfill capacity, and reduce greenhouse gas emissions and use of natural resources through the reduction, reuse, or recycling of solid waste.	<b>Consistent.</b> The Project is a solar generation and energy storage facility, which would generate a limited amount of solid waste from Project operations. The Project would be required to comply with State waste diversion requirements. As such, the Project would be consistent with this policy.
IU-5.5	<b>Energy and fuel facilities.</b> We encourage the development and upgrade of energy and regional fuel facilities in areas that do not pose significant environmental or public health and safety hazards, and in a manner that is compatible with military operations and local community identity.	<b>Consistent.</b> The Project is a solar generation and energy storage facility and would not create additional significant environmental or public health and safety hazards as it would displace fossil fuel energy production. Clean energy would be produced from operation of the Project. Therefore, the Project would not conflict with this policy.
NR-1.7	<b>Greenhouse gas reduction targets</b> . We strive to meet the 2040 and 2050 greenhouse gas emission reduction targets in accordance with state law.	<b>Consistent.</b> The Project would indirectly reduce GHG emissions overall and is consistent with State goals and requirements to replace non-carbon neutral electricity sources with carbon-neutral electrical sources. Therefore, the Project would be consistent with this policy.

#### Table 4.6-4: Consistency with GHG Policies in the County's Policy Plan

Policy No.	San Bernardino County Policy Plan Policy	Project Consistency with Policy
RE 4.10	Prohibit utility-oriented RE project development on sites that would create adverse impacts on the quality of life or economic development opportunities in existing unincorporated communities. Any exceptions or revisions to the following policy direction would require approval by the Board of Supervisors.	<b>Consistent.</b> The Project is located on land that is crossed over by high voltage lines and has limited use, other than for PV solar projects. Therefore, the Project would not conflict with this policy.
RE 5.2	<ul> <li>Utility-oriented RE generation projects on private land in the unincorporated County will be limited to the site-types below, in addition to meeting criteria established herein and in the Development Code:</li> <li>ix. Sites within or adjacent to electric transmission and utility distribution corridors</li> </ul>	<b>Consistent.</b> The Project is located on land that is crossed over by high voltage lines. Therefore, the Project is consistent with this policy.

#### Consistency with the 2017 CARB Scoping Plan Update

The 2017 Scoping Plan identifies additional GHG reduction measures necessary to achieve the 2030 target. These measures build upon those identified in the first update to the Scoping Plan (2014). Although a number of these measures are currently established as policies and measures, some measures have not yet been formally proposed or adopted. It is expected that these measures or similar actions to reduce GHG emissions will be adopted as required to achieve statewide GHG emissions targets. **Table 4.6-5**, *Consistency with the 2017 Scoping Plan*, is an evaluation of applicable reduction actions/strategies by emissions source category to determine how the Project would be consistent with or exceed reduction actions/strategies outlined in the 2017 Scoping Plan. Therefore, the Project would be consistent with the 2017 CARB Scoping Plan and potential impacts would be less than significant in this regard.

Actions and Strategies	Project Consistency with Actions and Strategies
SB 350	
Achieve a 50 percent Renewable Portfolio Standard (RPS) by 2030, with a doubling of energy efficiency savings by 2030	<b>Consistent</b> The Project includes the construction and operation of a renewable energy generation and storage facility. Therefore, the Project would help the State achieve the RPS goals. As such, the Project would be consistent with SB 350 (and SB 100).
Low Carbon Fuel Standard (LCFS)	
Increase stringency of carbon fuel standards; reduce the carbon intensity of fuels by 18 percent by 2030, which is up from 10 percent in 2020.	<b>No Conflict.</b> This standard applies to all vehicle fuels sold in California including that could be used in vehicles associated with the Project. The Project would not impede this goal.

#### Table 4.6-5: Consistency with the 2017 Scoping Plan

Actions and Strategies	Project Consistency with Actions and Strategies			
Mobile Source Strategy (Cleaner Technology and Fuel Scenario)				
Maintain existing GHG standards of light and heavy-duty vehicles while adding an addition 4.2 million zero emission vehicles (ZEVs) on the road. Increase the number of ZEV buses, delivery trucks, or other trucks.	<b>No Conflict.</b> The Project may include occasional light- and heavy-duty truck uses for operations and maintenance activities. Trucks uses associated with the Project would be required to comply with all CARB regulations, including the LCFS and newer engine standards. The Project would not conflict with the CARB's goal of adding 4.2 million ZEVs on the road. As such, the Project would not conflict with the goals of the Mobile Source Strategy.			
Sustainable Freight Action Plan				
Improve the freight system efficiency and maximize the use of near zero emission vehicles and equipment powered by renewable energy. Deploy over 100,000 zero- emission trucks and equipment by 2030.	<b>No Conflict.</b> As described above, occasional truck uses associated with the Project would be required to comply with all CARB regulations, including the LCFS and newer engine standards. Additionally, the Project would comply with all future applicable regulatory standards adopted by CARB and would not conflict with CARB's goal to deploy over 100,000 zero-emission trucks and equipment by 2030.			
Short-Lived Climate Pollutant (SLCP) Reduction Strategy				
Reduce the GHG emissions of methane and hydrofluorocarbons by 40 percent below the 2013 levels by 2030. Furthermore, reduce the emissions of black carbon by 50 percent below the 2013 levels by the year 2030.	<b>No Conflict.</b> The Project would not emit a large amount of CH <sub>4</sub> (methane) emissions; refer to <b>Table 4.6-2</b> and <b>Table 4.6-3</b> . Furthermore, the Project would comply with all applicable CARB and MDAQMD hydrofluorocarbon regulations. As such, the Project would not conflict with the SLCP reduction strategy.			
Post-2020 Cap and Trade Programs				
The Cap-and-Trade Program will reduce greenhouse gas (GHG) emissions from major sources (covered entities) by setting a firm cap on statewide GHG emissions while employing market mechanisms to cost- effectively achieve the emission-reduction goals.	<b>Not Applicable.</b> The Project is estimated to generate approximately 1,464.02 MTCO <sub>2</sub> e per year, which is below the 25,000 MTCO <sub>2</sub> e per year Cap-and-Trade screening level. Therefore, this goal is not applicable to the Project.			

#### Conclusion

In summary, the plan consistency analysis provided above demonstrates that the Project is consistent with applicable plans, policies, regulations and GHG reduction actions/strategies, such as those outlined in the RGHGRP, County Policy Plan, and CARB's 2017 Scoping Plan Update. Therefore, the Project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing emissions of GHGs. Thus, impacts would be less than cumulatively considerable.

# 4.6.7 Cumulative Impacts

Chapter 3.0, Environmental Setting, of this Draft EIR provides a list of related projects that would have the potential to be considered in a cumulative context with the Project's incremental contribution. These

projects are summarized in **Table 3-2**, *Related Projects*, and shown in **Figure 3-1**, *Related Projects in the Planning Area*. It is generally the case that an individual project of this size and nature is of insufficient magnitude by itself to influence climate change or result in a substantial contribution to the global GHG inventory. GHG impacts are recognized as exclusively cumulative impacts. There are no non-cumulative GHG emission impacts from a climate change perspective.

The additive effect of Project related GHGs would not result in a reasonably foreseeable cumulatively considerable contribution to global climate change. In addition, the Project as well as other cumulative related projects would also be subject to all applicable regulatory requirements, which would further reduce GHG emissions. As the Project provides a net positive effect on GHG emissions by providing clean renewable energy and would comply with all applicable plans, rules, regulations, and policies, its contribution to cumulative GHG emissions and climate change impacts would be less than cumulatively considerable.

# 4.6.8 Mitigation Measures

No mitigation measures are required, as all Project impacts regarding GHG emissions are less than significant.

# 4.6.9 Level of Significance After Mitigation

No mitigation measures are required. Impacts related to GHG emissions would be less than significant.

# 4.7 HAZARDS AND HAZARDOUS MATERIALS

# 4.7.1 Introduction

This section discusses the potential hazards and hazardous materials impacts that would occur in association with implementation of the proposed Project. The discussion focuses on hazardous materials and hazards requiring remediation or mechanisms to prevent accidental release. Information contained in this section is derived in part from the Environmental Database Reports (Appendix G).

# 4.7.2 Existing Environmental Setting

# **Current Use**

The Project Site consists of 1,090 acres within 21 parcels (in their entirety and portions of) that are held under lease agreement by CDH Vidal LLC (CORE). The Project Site consists of primarily vacant, undeveloped land; however, six parcels are developed with multiple structures, including dwellings and storages areas for agricultural purposes. The following parcels and their associated potential uses are described below:

- 0647-081-37: Five structures, likely associated with the abandoned rural residence and associated storage or agricultural sheds, are scattered throughout the parcel. Multiple Aboveground Storage Tanks (ASTs) are observed from aerial imagery with unknown contents. Six circular berms are observed with unknown use along with trash and debris.
- 0647-061-01: Three concrete pads (possibly for former or future structures) and one dwelling is observed from aerial imagery. Power lines bisect the southeast portion of the parcel with an access road.
- 0647-061-02: One structure is observed along the northwestern boundary of the parcel.
- 0647-061-22: One structure along with a fallow orchard is observed off of Citrus Ranch Road in the center of the Project Site.
- 0647-061-28: Six structures were observed within the southeast portion of the parcel.
- 0647-061-14: Three structures and storage areas are observed within the eastern portion of the parcel.

# **Regional Setting**

San Bernardino County's (County) geography and the complexity of its economy and socioeconomics exposes people, buildings, and facilities to a wide range of natural hazards including wildfires, flooding, geologic activity, and wind and human-generated hazards such as hazardous materials, airports, and noise. According to the San Bernardino Countywide Plan Program Draft Environmental Impact Report (EIR), the Desert Region of the County Planning Area encompasses 24 facilities that have reported toxic releases; 99 large quantity hazardous waste generators; 352 small quantity hazardous waste generators; 24 potential hazardous waste Superfund sites; 3 Superfund sites on the Final National Priorities List; 9 hazardous waste transporters; 25 leaking underground storage tanks; and 49 formerly used defense sites.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> County of San Bernardino, *Countywide Plan Final EIR*, 2020. Available at <u>https://countywideplan.com/resources/document-download/</u>. Accessed August 11, 2022.

# Historical Use of Site

As described above, the majority of the Site is undeveloped and vacant. Images observed through Google Earth indicate that an orchard operated from at least 1985 (earliest image) until at least 2012 within parcel (Assessor Parcel Number [APN]: 0647-061-22). Therefore, there is a potential that agricultural related chemicals such as pesticides, herbicides, and fertilizers may have been used and stored on-site. No specific areas of concern such as structures or mixing areas were noted in available historical records (see Appendix G).

# Federal and State Database Review

The primary reason for defining potentially hazardous sites is to protect health and safety and to minimize the public's exposure to hazardous materials during Project construction and waste handling. Exposure can occur during normal use, handling, storage, transportation, and disposal of hazardous materials. Exposure may also occur due to hazardous compounds existing in the environment, such as fuels in underground storage tanks, pipelines, or areas where chemicals have leaked into the soil or groundwater or preferential pathways for vapor migration. If encountered, impacted soil may qualify as hazardous waste, thus requiring handling and disposal according to local, State, and federal regulations. **Table 4.7-1**, *Impacted Sites within 10 Miles of the Project Site*, below lists the only contaminated site identified within 10 miles of the Project site.

Site Name	Address	City	Site/Facility Type	Cleanup Status	Distance from Project Site	
K-8 Parker Dam School	Osage Trail/ Cochise Road	Big River, CA	School	No Action Required as of 8/19/2003	5 miles	
Source: California Department of Toxic Substances Control, EnviroStor Database. Available at <a href="http://www.envirostor.dtsc.ca.gov/?surl=09vie">http://www.envirostor.dtsc.ca.gov/?surl=09vie</a> . Accessed August 11, 2022.						

Table 4.7-1: Impacted Sites within 10 Miles of the Project Site

EnviroStor, which is administered by the Department of Toxic Substances Control (DTSC), provides information on permits, investigations, and corrective actions at hazardous waste facilities, as well as site cleanup projects. Review of EnviroStor indicates that a Phase I Environmental Site Assessment (ESA) was prepared for K-8 Parker Dam School in 2003. The Phase I ESA identified no contaminants on-site and determined that no action was or will be required as of August 19, 2003.<sup>2</sup>

GeoTracker, which is administered by the State Water Resources Control Board (SWRCB), is used to track and archive compliance data from authorized or unauthorized discharges of waste to land, or unauthorized releases of hazardous substances from underground storage tanks (UST). While not listed as a contaminated site, review of GeoTracker indicates that an abandoned permitted UST was associated with Eagle Mountain Pumping Plant. No additional information is provided online with no indication of leaking was reported.<sup>3</sup>

EnviroMapper, which is administered by the U.S. EPA, includes geographic information, such as locations of federal Superfund sites and other hazardous materials sites. Review of the California Department of

<sup>&</sup>lt;sup>2</sup> Department of Toxic Substance Control, Envirostor, Available at <u>https://www.envirostor.dtsc.ca.gov/public/profile\_report?global\_id=36650009</u>. Accessed August 11, 2022.

<sup>&</sup>lt;sup>3</sup> State Water Resources Control Board, GeoTracker. Available at <u>https://geotracker.waterboards.ca.gov/profile\_report.asp?global\_id=10033828</u>. Accessed August 11, 2022.

Conservation Geologic Energy Management Division's (CalGEM) Well Finder database, and EnviroMapper revealed no hazardous material sites within 10 miles of the Project Site. The Environmental Database Report (see Appendix G) further reported that there are no listings for the Project Site.

#### **Sensitive Receptors**

Sensitive receptors that may be susceptible to health and safety impacts resulting from the construction and operation of renewable energy facilities generally include on-site workers and the young and elderly sectors of the population.

The Mojave Desert Air Quality Management District (MDAQMD), within which the Project Site is located, considers residences, schools, daycare centers, playgrounds, and medical facilities to be sensitive receptors. Land use surrounding the Project site consists primarily of undeveloped desert with scattered abandoned rural residences, garage (storage) areas, and several WAPA towers. The closest residence is approximately 700 feet northwest of the Project site. The closest schools to the Project site are Blake Primary School, Wallace Elementary School, Wallace Junior High School, and Parker High School. All of these schools are located in Parker, Arizona approximately 9 miles northeast of the Project site. The closest medical facility to the Project site is also in Parker, La Paz Regional Hospital, approximately 10 miles northeast of the Project site.

# 4.7.3 Regulatory Setting

# Federal

#### **Resource Conservation and Recovery Act**

The Resource Conservation and Recovery Act (RCRA) grants authority to the U.S. EPA to control hazardous waste from start to finish. This covers the production, transportation, treatment, storage, and disposal of hazardous waste. The RCRA also sets forth a framework for the management of nonhazardous solid waste. The 1986 amendments to the RCRA enabled the U.S. EPA to address environmental problems that could result from underground tanks storing petroleum and other hazardous substances.

#### Hazardous Materials Transport Regulations

The U.S. Department of Transportation (USDOT) regulates transportation of hazardous materials between states. The USDOT Federal Railroad Administration enforces the hazardous materials regulations, which are promulgated by the Pipeline and Hazardous Materials Safety Administration for rail transportation. These regulations include requirements that railroads and other transporters of hazardous materials, as well as shippers, have and adhere to security plans and also train employees involved in offering, accepting, or transporting hazardous materials on both safety and security matters. Additionally, the Federal Hazardous Materials Transportation Law is enforced by the USDOT's Federal Highway Administration with the purpose of protecting risks to life, property, and the environment resulting from the transportation of hazardous materials.

#### National Pollutant Discharge Elimination System

The National Pollutant Discharge Elimination System (NPDES) is a program created to implement the Clean Water Act. The SWRCB and the nine regional water boards administer NPDES to regulate and monitor discharged waters and to ensure they meet water quality standards.

#### Occupational Safety and Health Act (OSHA)

Congress passed the Occupational Safety and Health Act (OSHA) to assure safe and healthful working conditions for working men and women. OSHA assists states with ensuring safe and healthful working conditions and provides for research, information, education, and training in the field of occupational safety and health. The Project would be subject to OSHA requirements during construction, operation, and maintenance.

#### National Fire Protection Association

The National Fire Protection Association (NFPA) provides codes and standards, research, trainings, and education for fire protection. The NFPA publishes more than 300 codes and standards intended to minimize the possibility and effects of fire and other risks. The NFPA standards are recommended guidelines and nationally accepted good practices in fire protection. Specific codes of the NFPA are typically implemented through the California Fire Code (CFC) or at the local level through the respective county or city.

#### State

#### Title 22 of the California Code of Regulations

A material is considered hazardous if it appears on a list of hazardous materials prepared by a federal, state, or local agency or if it has characteristics defined as hazardous by such an agency. According to Title 22, Section 66260.10, of the California Code of Regulations (CCR), a hazardous material is defined as:

...A substance or combination of substances which, because of its quantity, concentration, or physical, chemical or infectious characteristics, may either (1) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or, (2) pose a substantial present or potential hazard to human health or environment when improperly treated, stored, transported or disposed of or otherwise managed.

Chemical and physical properties that cause a substance to be considered hazardous include the properties of toxicity, ignitability, corrosivity, and reactivity (Title 22, Sections 66261.20 through 66261.24). Factors that influence the health effects of exposure to hazardous materials include dosage, frequency, the exposure pathway, and individual susceptibility. The Project would require use of small amounts of hazardous materials (such as diesel fuel, oil, and grease for heavy equipment) during construction, operation, and reclamation.

#### California Environmental Protection Agency

The California Environmental Protection Agency (CalEPA) has jurisdiction over hazardous materials and wastes at the State level. CalEPA and the SWRCB establish rules governing the use of hazardous materials and the management of hazardous waste. Applicable State and local laws include the following:

- Public Safety/Fire Regulations/Building Codes
- Hazardous Waste Control Law
- Hazardous Substances Information and Training Act

- Air Toxics Hot Spots and Emissions Inventory Law
- Underground Storage of Hazardous Substances Act
- Porter-Cologne Water Quality Control Act

Small quantities of hazardous materials will be used and stored on site for miscellaneous, general maintenance activities that would be subject to State and local laws.

### California/Occupational Safety and Health Act (Cal/OSHA)

The Division of Occupational Safety and Health (DOSH), better known as Cal/OSHA, protects workers from health and safety hazards on the job in almost every workplace in California through its research and standards, enforcement, and consultation programs.

#### Hazardous Materials Management Plans

In January 1996, CalEPA adopted regulations implementing a Unified Hazardous Waste and Hazardous Materials Management Regulatory Program (Unified Program). The six program elements of the Unified Program are hazardous waste generators and hazardous waste on-site treatment, underground storage tanks, aboveground storage tanks, hazardous material release response plans and inventories, risk management and prevention program, and Uniform Fire Code hazardous materials management plans and inventories. The program is implemented at the local level by a local agency—the Certified Unified Program Agency (CUPA). The CUPA is responsible for consolidating the administration of the six program elements within its jurisdiction.

State and federal laws require detailed planning to ensure that hazardous materials are properly handled, used, stored, and disposed of, and, in the event that such materials are accidentally released, to prevent or to mitigate injury to health or the environment.

#### Hazardous Materials Disclosure Program

The Hazardous Materials Disclosure Program is found within the provisions of the California Health and Safety Code [HSC], Division 20, Chapter 6.95, Article 1. CUPAs are required to implement this Hazardous Materials Disclosure Program by reporting and disclosing the storage, use, or handling of hazardous materials on a site as a strategic measure to minimize loss of life and property. In addition, Hazardous Materials Business Plans must be submitted by all businesses that handle more than a threshold quantity of hazardous materials.

#### California Accidental Release Prevention Program

The California Accidental Release Prevention Program (CalARP) is found within the provisions of the California HSC, Division 2, Chapter 4.5. CalARP is implemented at the local level by CUPAs as a strategy to minimize the accidental releases of stationary substances that can cause harm to the general public and the environment. Businesses are required to develop risk management plans if more than a threshold quantity of regulated substances is handled.

#### California Hazardous Materials Release Response Plans and Inventory Law

The California Hazardous Materials Release Response Plans and Inventory Law of 1985 (Business Plan Act) requires hazardous materials business plans to be prepared and inventories of hazardous materials to be disclosed. A business plan includes an inventory of the hazardous materials handled, facility floor plans showing where hazardous materials are stored, an emergency response plan, and provisions for employee safety and emergency response training (HSC, Division 20, Chapter 6.95, Article 1.).

#### Department of Toxic Substances Control

The DTSC has primary regulatory responsibility for the management of hazardous materials and the generation, transport, and disposal of hazardous waste under the authority of the Hazardous Waste Control Law (HWCL). Enforcement is delegated to local jurisdictions that enter into agreements with DTSC.

California's Secretary of Environmental Protection established a unified hazardous waste and hazardous materials management regulatory program as required by HSC Chapter 6.11. The unified program consolidates, coordinates, and makes consistent portions of the following six existing programs:

- Hazardous Waste Generations and Hazardous Waste Onsite Treatment
- Underground Storage Tanks
- Hazardous Material Release Response Plans and Inventories
- California Accidental Release Prevention Program
- Aboveground Storage Tanks (spill control and countermeasure plan only)
- Uniform Fire Code Hazardous Material Management Plans and Inventories

The statute requires all counties to apply to the CalEPA Secretary for the certification of a local unified program agency. Qualified cities are also permitted to apply for certification. The local CUPA is required to consolidate, coordinate, and make consistent the administrative requirements, permits, fee structures, and inspection and enforcement activities for these six program elements within the county. Most CUPAs have been established as a function of a local environmental health or fire department.

The Office of the State Fire Marshal participates in all levels of the CUPA program including regulatory oversight, CUPA certifications, evaluations of the approved CUPAs, training, and education. The CUPA designated for San Bernardino County is the Hazardous Materials Division of the San Bernardino County Fire Department (SBCFPD).

Small quantities of hazardous materials will be transported to and from the Project area and used and stored on site for miscellaneous general operations and maintenance activities.

#### Government Code Section 65962.5 (Cortese List)

Government Code Section 65962.5, amended in 1992, requires the CalEPA to develop and update annually the Hazardous Waste and Substances Sites (Cortese) List, which is a list of DTSC-listed hazardous waste facilities and sites, Department of Health Services lists of contaminated drinking water wells, sites listed by the SWRCB as having UST leaks and have had a discharge of hazardous wastes or materials into the water or groundwater, and lists from local regulatory agencies of sites that have had a known migration of hazardous waste/material. The Cortese List is a planning document used by the State, local agencies,
and developers to comply with the California Environmental Quality Act (CEQA) requirements in providing information about the location of hazardous materials release site. Enforcement of directives from DTSC is handled at the local level, in this case the San Bernardino County Division of Environmental Health (DEH). The Colorado River Regional Water Quality Control Board (RWQCB) also has the authority to implement regulations regarding the management of soil and groundwater investigation.

# California Emergency Response Plan

California has developed an emergency response plan to coordinate emergency services provided by federal, State, and local governments and private agencies. Response to hazardous material incidents is one part of this plan. The plan is managed by the Governor's Office of Emergency Services, which coordinates the responses of other agencies, including CalEPA, the California Highway Patrol (CHP) and the RWQCB.

# California Building Code and Fire Code

Chapter 7A of the California Building Code (CBC), Materials and Methods for Exterior Wildfire Exposure, prescribes building materials and construction methods for new buildings in a fire hazard severity zone. Chapter 7A contains requirements for roofing; attic ventilation; exterior walls; exterior windows and glazing; exterior doors; decking; protection of underfloor, appendages, and floor projections; and ancillary structures. Chapter 49 of the California Fire Code (CFC), Requirements for Wildland-Urban Interface Fire Areas, prescribes construction materials and methods in fire hazard severity zones. These requirements generally parallel CBC Chapter 7A.

# Lead-Based Paint

Lead-based paint has been identified by OSHA, the U.S. EPA, and the Department of Housing and Urban Development as a potential health risk to humans, particularly children, based on its effects to the central nervous system, kidneys, and bloodstream. The Department of Housing and Urban Development classifies the risk of lead-based paint based upon the painted surface's age and condition. Cal/OSHA has established limits of exposure to lead contained in dusts and fumes. Specifically, 8 CCR Section 1532.1 establishes the rules and procedures for conducting demolition and construction activities and establishes exposure limits, exposure monitoring, and respiratory protection for workers exposed to lead.

# Division of Oil, Gas and Geothermal Resources Map

To evaluate the presence of oil or gas wells on-site and in the immediate site vicinity, maps available online at the California Department of Conservation, Division of Oil, Gas, and Geothermal Resources (https://maps.conservation.ca.gov/doggr/wellfinder/#/) were reviewed. No oil, gas or geothermal wells were identified on or on properties adjoining the Project Site.

# Title 8, California Code of Regulations, Section 2700 et seq., "High Voltage Safety Orders"

Title 8 of the CCR specifies requirements and minimum standards for safety when installing, operating, working around, and maintaining electrical installations and equipment.

# *Title 14, California Code of Regulations, Sections 1250-1258, "Fire Prevention Standards for Electric Utilities"*

Title 14 of the CCR provides specific exemptions from electric pole and tower firebreak. Title 14 also provides conductor clearance standards and specifies when and where standards apply. These standards address hazards that could be caused by sparks from conductors of overhead lines, or that could result from direct contact between the line and combustible objects.

# Local

# San Bernardino County Fire Department

The SBCFPD Hazardous Materials Division, is the CUPA for the County. It issues permits to and conducts inspections of businesses that use, store, or handle substantial quantities of hazardous materials and/or waste. The CUPA is charged with the responsibility of conducting compliance inspections for over 7,000 regulated facilities in the county. These facilities handle hazardous materials, generate or treat hazardous waste, and/or operate an underground storage tank. The CUPA employs a comprehensive environmental management approach to resolve environmental issues and uses education and enforcement procedures to minimize the potential risk to human health and the environment while promoting fair business practices. As a CUPA, the SBCFPD manages six hazardous material and hazardous waste programs. The CUPA program is designed to consolidate, coordinate, and uniformly and consistently administer permits, inspection activities, and enforcement activities throughout the County.

# San Bernardino County Hazardous Materials Release Response Plans and Inventory Program

In San Bernardino County, the Business Emergency/Contingency Plan (Business Plan) is also used to satisfy the contingency plan requirement for hazardous waste generators. Any business subject to any of the CUPA permits is required in San Bernardino County to file a Business Emergency/Contingency Plan using the California Environmental Reporting System. This submission is used as the basis for the permit application. A new business going through the process of obtaining County planning or building approval is required to comply with the Business Emergency/Contingency Plan requirement prior to obtaining final certificate of occupancy and prior to bringing hazardous materials onto the property.

The quantities that trigger disclosure are based on the maximum quantity on site at any time, excluding materials under active shipping papers or for direct retail sale to the public. The basic quantities are: hazardous materials at or exceeding 55 gallons, 500 pounds, or 200 cubic feet at any time in the course of a year; specified amounts of radioactives; and extremely hazardous substances above the threshold planning quantity.<sup>4</sup>

# San Bernardino County Countywide Plan/Policy Plan

The County's Policy Plan includes policies and programs that are intended to address hazards to the public and environment and guide future development in a way that lessens impacts. For instance, the Countywide Plan/Policy Plan requires the application of program review and permitting procedures for proposed land uses potentially introducing hazardous substances, as well as the inspection of hazardous

<sup>&</sup>lt;sup>4</sup> San Bernardino County Fire Department, Hazardous Materials Release Response Plans and Inventory (Business Plan). Available at <u>https://sbcfire.org/hazmatbusinessplan/</u>. Accessed August 11, 2022.

material handlers and hazardous waste generators. Policies and goals that are relevant to hazards and hazardous materials are listed below.

#### Renewable Energy and Conservation Element

**Policy RE 4.6** Require all recyclable electronic and/or toxic materials to be recycled in accordance with the requirements of the Basel Convention or comparable standard.

#### Hazards Element

- **Policy HZ-1.2** New development in environmental hazard areas. We require all new development to be located outside of the environmental hazard areas listed below. For any lot or parcel that does not have sufficient buildable area outside of such hazard areas, we require adequate mitigation, including designs that allow occupants to shelter in place and to have sufficient time to evacuate during times of extreme weather and natural disasters.
  - Flood: 100-year flood zone, dam/basin inundation area
  - Geologic: Alquist Priolo earthquake fault zone; County-identified fault zone; rockfall/debris-flow hazard area, medium or high liquefaction area (low to high and localized), existing and County-identified landslide area, moderate to high landslide susceptibility area)
  - Fire: high or very high fire hazard severity zone
- **Policy HZ-1.7** Underground utilities. We require that underground utilities be designed to withstand seismic forces, accommodate ground settlement, and hardened to fire risk.
- **Policy HZ-1.14** Long-term fire hazard reduction and abatement. We require proactive vegetation management/hazard abatement to reduce fire hazards on existing private properties, along roadsides of evacuation routes out of wildfire prone areas, and other private/public land where applicable, and we require new development to enter into a long-term maintenance agreement for vegetation management in defensible space, fuel modification, and roadside fuel reduction in the Fire Safety Overlay and/or Very High Fire Hazard Severity Zones.
- Policy HZ-3.18 Application requirements. In order for a Planning Project Application (excluding Minor Use Permits) to be deemed complete, we require applicants to indicate whether the project is within, adjacent to, or nearby an unincorporated environmental justice focus area and, if so, to:
  - document to the County's satisfaction how an applicant will address environmental justice concerns potentially created by the project; and
  - present a plan to conduct at least two public meetings for nearby residents, businesses, and property owners to obtain public input for applications involving a change in zoning or the Policy Plan. The County will require additional public outreach if the proposed project changes substantively in use, scale, or intensity from the proposed project presented at previous public outreach meeting(s).

Personal & Property Protection Element

- Policy PP-3.4Fire prevention services. We proactively mitigate or reduce the negative effects of fire,<br/>hazardous materials release, and structural collapse by implementing the California<br/>Fire Code, adopted with County amendments.
- **Policy PP-3.5** Firefighting water supply and facilities. We coordinate with water providers to maintain adequate water supply, pressure, and facilities to protect people and property from urban fires and wildfires.

# San Bernardino County Code of Ordinances Title 2, Division 3, Fire Protection and Explosives and Hazardous Materials

Chapter 6, Permits, Inspections and Hearing Procedures for Hazardous Materials, prohibits any person or business subject to the requirements of the CUPA Permit Program Elements from generating, producing, storing, treating, or other handling of hazardous materials or hazardous waste without getting the proper operation permitting and paying the appropriate fees.

Chapter 7, CUPA Permit Elements for Hazardous Materials, defines the types of facilities, activities, and operations that are subject to these fees and permit requirements.

# Title 8, Division 2, Land Use Zoning Districts and Allowed Land Uses

Development Code Chapter 82.13, Fire Safety (FS) Overlay, was created to provide greater public safety in areas prone to wildland brush fires by establishing additional development standards for these areas. Chapter 82.16, Hazardous Waste (HW) Overlay, ensures that hazardous waste facilities are sited in areas that protect public health, safety, welfare, and the environment by buffering hazardous waste facilities so that incompatible uses are not permitted to be developed in the vicinity.

#### Title 8, Division 4, Standards for Specific Land Uses and Activities

Development Code Chapter 84.11, Hazardous Waste Facilities, includes provisions that apply to hazardous waste facilities where allowed in compliance with Chapter 82.16 described above. The chapter states that an approved Special Use Permit is required for the establishment of a hazardous waste facility. The permit's purpose is to evaluate the operation and monitoring plan of the facility; ensure the facility has adequate measures for monitoring ongoing impacts to air quality, groundwater, and environmentally sensitive resources; evaluate the types and quantities of wastes that will be treated or disposed of at the facility; and require periodic inspections of the facility to ensure conditions of approval are implemented and monitored.

# Emergency Response Plan

The intent of hazard mitigation is to reduce and/or eliminate loss of life and property. Hazard mitigation is defined by the Federal Emergency Management Agency (FEMA) as "any action taken to reduce or eliminate the long-term risk to human life and property from natural hazards." FEMA defines a hazard as "any event or condition with the potential to cause fatalities, injuries, property damage, infrastructure damage, agricultural loss, environmental damage, business interruption, or other loss." The purpose of the County's 2011 Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) is to demonstrate the mechanisms for reducing and/or eliminating risk in the unincorporated area of the county and its five special districts.

The MJHMP process encourages communities to develop goals and projects that will reduce risk and build a more disaster-resilient community by analyzing potential hazards.

# 4.7.4 Thresholds of Significance

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to hazards and hazardous materials if it would:

- **Threshold (a):** Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials;
- **Threshold (b):** Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment;
- **Threshold (c):** Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school;
- **Threshold (d):** Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, create a significant hazard to the public or the environment;
- **Threshold (e):** For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, result in a safety hazard or excessive noise for people residing or working in the project area;
- **Threshold (f):** Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan; or
- **Threshold (g):** Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires.

As identified in Section 6.5: Effects Found Not to Be Significant, impacts related to Threshold (a), (c), (d), and (e) were determined to have no impact or a less than significant impact and do not require further analysis in the Draft EIR.

# 4.7.5 Methodology

The analysis of hazardous materials evaluates materials potentially existing on the Project Site and those that would be used as part of Project construction, operations, and maintenance. Therefore, this analysis was conducted by examining the choice and amount of chemicals to be used, the manner in which the chemicals would be used, the manner by which any hazardous materials would be transported to and from the Project area, and the way in which the materials would be stored on the Project Site.

# 4.7.6 **Project Impact Analysis**

# Threshold (b): Would the Project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Project construction activities would involve the use and transportation of hazardous materials such as fuels, asphalt, lubricants, toxic solvents, pesticides, and herbicides. Construction equipment generally contains limited amounts of hazardous materials such as diesel fuel, hydraulic oil, lubricants, grease, solvents, cleaners, adhesives, paints, and other petroleum-based products. Project construction activities would occur in accordance with all applicable local standards set forth by the County, as well as State and federal health and safety requirements that are intended to minimize hazardous materials risk to the public, such as Cal/OSHA requirements, the Hazardous Waste Control Act, the California Accidental Release Protection Program, and the California HSC. For hazardous materials used during construction, contractors, in accordance with State regulations, would be required to properly use and store materials in appropriate containers with secondary containment to contain a potential release. Compliance with all applicable regulations would ensure that the risk of a release of hazardous materials into the environment during construction is less than significant.

During operation, the Project would not generate or require the use or storage of significant quantities of hazardous substances. All storage and disposal of hazardous materials on the Project site would be in accordance with regulations set forth by the County Fire Department's Hazardous Materials Division (HMD), Cal/OSHA, CalARP, the California HSC, and the U.S. EPA Hazardous Waste Control Act. Moreover, the photovoltaic panels used in the Project are environmentally sealed collections of photovoltaic cells that require no chemicals and produce no waste materials.

However, the Project would include a Battery Energy Storage System (BESS) with a capacity of 640 megawatt-hour (MWh). Under normal operations, BESS facilities do not store or generate hazardous materials in quantities that would represent a risk to offsite receptors. Although the Project's BESS would be enclosed in containers, battery storage systems create potential for accidental release of hazardous substances in the rare case of a fire event. Nonetheless, the Project will be required to comply with the San Bernardino County Fire Protection District (SBCFPD) Fire Code and the 2019 CFC. Additionally, the Project would comply with the National and International Fire Codes, which have evolved over the past decade of experience with electrical energy storage systems to become the state-of-the-art development and performance standards that ensure the safe installation, operations, and maintenance of utility scale BESS. These standards address, among other topics: development standards for design, installation, commissioning, operation, maintenance and decommissioning of these systems, including fire and safety equipment requirements, fire-resistant ratings of enclosures and other components; equipment and system fire testing in accordance with UL standards, stringent standards for commissioning, operation and maintenance, on-going inspection and testing, decommissioning, seismic and structural design, signage, security installations, fire detection and suppression systems, vegetation control; and minimum setbacks from lot lines, roads, and adjacent buildings.

Further, the Project has been designed to include numerous built-in fire and safety features. The Project's fire and safety features are described below in terms of multiple levels of defense: 1) the Module Level, 2) the BESS Container Level, 3) the Site Level, and 4) the Operational Level.

*Module Level:* The first priority in fire safety is to prevent an event from ever occurring and limit the extent of that fire if it does occur. Pursuant to the National and International Fire Codes, the voltages, currents,

and temperatures of battery modules are required to be monitored and controlled 24/7 to ensure every cell remains within its safe operating parameters. These monitoring and control systems are required to transmit an alarm signal if potentially hazardous temperatures or other conditions such as short circuits, over voltage or under voltage, are detected. If a module-level system failure is detected, the system automatically controls and isolates individual modules from the rest of the system preventing the conditions that could lead to an event. Furthermore, battery manufacturers must prove that battery modules, if they catch fire, will not cause a fire to propagate to other modules, racks, or other enclosures. As part of this process, manufacturers must show that their batteries can pass rigorous UL 1973 and UL 9540A testing and certification. This testing includes demonstration of adequate system controls and alarms, separations between equipment, protections such as fire-retardant barriers and coatings, fire suppression systems, and ventilation systems to limit failure to a single battery module.

*Container Level:* The National and International Fire Codes contain safety standards for construction of battery enclosures including mounting, elevation of enclosures from the ground, materials, fire resistant barriers as well as requirements addressing: insulation, wiring, switches, transformers, spacing and grounding; safety standards for performance, such as tests for temperature, volatility, impact, overload of switches, and an impact drop test; as well as standards for manufacturing, ratings, markings; and instruction manuals. In addition to the many individual standards referenced, a Failure Mode and Effects Analysis (FMEA) must be performed for each system enclosure and requires a test to ensure safe compatibility of the system's parts. The Project will also be equipped with integrated fire and safety systems, such as air cooling/conditioning systems, deflagration, gas-ventilation, gas, heat and smoke detection and alarms, and fire extinguishing and suppression systems within each container.

*Site Plan Level:* The Project Site layout is designed for operational safety pursuant to SBCFPD Fire Code requirements, including fire access routes, setbacks, fire hydrants, and fire-resistant perimeter walls. These site design elements have been reviewed and approved by the SBCFPD as part of the CUP Site Plan review.

*Operational Level:* The Project would obtain an operational permit and would be operated in accordance with the SBCFPD Fire Code's strict standards for commissioning, inspection, repair, and decommissioning. This will include the creation and implementation of an Emergency Response Plan, that will govern coordination and response to a fire emergency at the Project Site. The Emergency Response Plan will contain protocols to ensure that first responders are adequately trained to control a fire emergency at the site during both Project development and operation.

Compliance with the appropriate regulations and standard protocols, as well as inclusion of the Project's fire and safety features, would reduce the potential for hazardous materials impacts during Project operation. Therefore, Project operation would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accidental conditions involving the release of hazardous materials into the environment, and impacts would be less than significant.

# Threshold (f): Would the Project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan.

The County has adopted the Multi-Hazard Functional Plan (MHFP) to address the County's planned response to extraordinary emergency situations associated with natural disasters, technological incidents, and national security emergencies. The objective of the MHFP is to incorporate and coordinate all the facilities and personnel of the County into an efficient organization capable of responding to any emergency. The MHFP provides a process for emergency management and response with the County. The

MHFP identifies the organization structure and responsibilities of agencies in the event of an emergency or disaster. No revisions to the MHFP would be required as a result of the Project.

During construction, materials would be placed within the Project boundaries adjacent to the current phase of construction in order to avoid any access conflicts in case of emergency evacuations. During operation, primary access to the Project Site would be via U.S Route 95 directly onto a new Project-controlled, dirt access road on the west side of the Project Site. A 26-foot-wide perimeter access road would be constructed surrounding the Project Site. Additional 20-foot-wide internal maintenance roads would be located throughout the Project Site. All of the Project roads have been designed in compliance with the SBCFD Fire Code to ensure accessibility for the fire department and emergency vehicles. Internal access roads would be cleared and compacted for equipment and emergency vehicle travel and access to the solar blocks and BESS. Primary access to the Project Site. Therefore, the Project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Impacts would be less than significant.

# Threshold (g): Would the Project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires.

The Project Site is not located within a designated Very High Fire Hazard Severity Zone (VHFHSZ). Furthermore, the County's Hazard Overlay Mapping shows that the Project Site is not located in a Fire Safety Overlay District. No areas in the general vicinity of the site are classified within a Fire Safety Overlay District. Therefore, the Project would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires, and no impact would occur.

However, as previously discussed, the Project's BESS creates potential for accidental release of hazardous substances during a fire event. Nonetheless, the Project will be required to comply with the SBCFPD Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code. These regulations implement state-of-the-art development and performance standards that ensure the safe installation, operations, and maintenance of utility scale BESS. The Project would also implement fire and safety features at the Module Level, BESS Container Level, Site Level, and Operational Level (see Threshold b above). Compliance with the SBCFPD Fire Code, 2019 CFC, National Fire Code, and International Fire Code, as well as inclusion of the Project's fire and safety features, would reduce the potential for a wildland fire event to less than significant levels.

# 4.7.7 Cumulative Impacts

Chapter 3.0, Environmental Setting, of this Draft EIR provides a list of related projects that would have the potential to be considered in a cumulative context with the Project's incremental contribution. These projects are summarized in **Table 3-2**, *Related Projects*, and shown in **Figure 3-1**, *Related Projects in the Planning Area*. The geographic scope of the cumulative setting for hazards and hazardous materials is a 1-mile radius from the geographical center point of the Project Site. One mile is the standard American Society for Testing and Materials (ASTM) standard search distance for hazardous materials. This geographic scope encompasses an area larger than the Project area and provides a reasonable context wherein cumulative projects in the vicinity of the Project could affect hazards and hazardous materials. Based on **Table 3-2**, no projects from the related projects list are within the geographic scope.

The Project would involve the storage, use, disposal, and transport of hazardous materials to varying degrees during construction and operations. Accidental release of hazardous materials can be mitigated

to less than significant levels through compliance with various federal, State, and local laws, regulations, and policies regarding transport, storage, and use of hazardous materials. Therefore, the Project's contribution to cumulative hazardous materials impacts is considered less than cumulatively considerable.

# 4.7.8 Mitigation Measures

As detailed above, the Project would not result in significant impacts regarding hazards and hazardous materials. Therefore, no mitigation measures are required.

# 4.7.9 Level of Significance After Mitigation

No mitigation measures are required. Impacts related to hazards and hazardous materials would be less than significant.

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# 4.8 NOISE

# 4.8.1 Introduction

This section will evaluate the Project's potential noise impacts, both during short-term construction activities and long-term operational activities. This section presents relevant regulatory guidelines and County policies related to noise. Information contained in this section is derived from the Noise Assessment, dated September 19, 2022, prepared by Ldn Consulting (Appendix H).

# 4.8.2 Existing Environmental Setting

# Noise Fundamentals

Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure variations occur frequently enough (at least 20 times per second), they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound and is expressed as cycles per second, or hertz (Hz).

Noise is defined as unwanted or objectionable sound. The effect of noise on people can include general annoyance, interference with speech communication, sleep disturbance and, in the extreme, hearing impairment. The unit of measurement used to describe a noise level is the decibel (dB). The human ear is not equally sensitive to all frequencies within the sound spectrum. Therefore, the "A-weighted" noise scale, which weights the frequencies to which humans are sensitive, is used for measurements. Noise levels using A-weighted measurements are written as dB(A) or dBA. Decibels are measured on a logarithmic scale, which quantifies sound intensity in a manner similar to the Richter scale used for earthquake magnitudes. Thus, a doubling of the energy of a noise source, such as doubling a traffic volume, would increase the noise level by 3 dBA; a halving of the energy would result in a 3-dBA decrease.

A given level of noise may be more or less tolerable depending on the duration of exposure experienced by an individual. A number of measures of noise exposure consider not only the A-level variation of noise but also the duration of the disturbance. The Day-Night Average Level ( $L_{dn}$ ) is the weighted average of the intensity of a sound, with corrections for time of day, and averaged over 24 hours. The time of day corrections require the addition of 10 dB to sound levels at night between 10 PM and 7 AM. The Community Noise Equivalent Level (CNEL) is similar to the  $L_{dn}$  except that another 4.77 dB is added to sound levels during the evening hours between 7 PM and 10 PM. These additions are made to the sound levels at these time periods because during the evening and nighttime hours, when compared to daytime hours, ambient noise levels are decreased, which creates an increased sensitivity of the receptors to sounds. For this reason, sound appears louder in the evening and nighttime hours and is weighted accordingly. The San Bernardino County Hazards Element uses the CNEL and  $L_{dn}$ .

The most effective noise reduction methods consist of controlling the noise at the source, blocking the noise transmission with barriers or relocating the receiver. Any or all of these methods could be required to reduce noise levels to an acceptable level.

# Sound Propagation and Attenuation

Generally, sound spreads (propagates) uniformly outward in a spherical pattern. The sound level decreases (attenuates) at a rate of approximately 6 dB for each doubling of distance from a stationary or

point source. Sound from a line source, such as a highway, propagates outward in a cylindrical pattern, often referred to as cylindrical spreading. Sound levels attenuate at a rate of approximately 3 dB for each doubling of distance from a line source, such as a roadway, depending on ground surface characteristics.<sup>1</sup>

Noise levels may also be reduced by intervening structures or landforms. Generally, a single row of buildings between the receptor and the noise source reduces the noise level by about 5 dBA, while a solid wall or berm reduces noise levels by 5 to 10 dBA.<sup>2</sup> The way older homes in California were constructed generally provides a reduction of exterior-to-interior noise levels of about 20 to 25 dBA with closed windows. The exterior-to-interior reduction of newer residential units is generally 30 dBA or more.

# Fundamentals of Environmental Groundborne Vibration

Sources of groundborne vibration includes natural phenomena (earthquakes, volcanic eruptions, sea waves, landslides, etc.) or man-made causes (explosions, machinery, traffic, trains, construction activities which require the use of heavy-duty equipment, etc.). Vibration sources may be continuous (e.g., factory machinery) or transient (e.g., explosions). The strength of groundborne vibration attenuates rapidly over distance. It is unusual for vibration from typical urban sources such as buses and heavy trucks to be perceptible.

For the purposes of this analysis, a peak particle velocity (PPV) descriptor with units of inches per section (in/sec) is used to evaluate construction-generated vibration. The Project does not include operational sources of groundborne vibration.

Ground vibration consists of rapidly fluctuating motions or waves with an average motion of zero. Several different methods are typically used to quantify vibration amplitude. One is the PPV, another is the root mean square (RMS) velocity. The PPV is defined as the maximum instantaneous positive or negative peak of the vibration wave. The RMS velocity is defined as the average of the squared amplitude of the signal. The PPV and RMS vibration velocity amplitudes are used to evaluate human response to vibration.

For the purposes of this analysis, a PPV descriptor with units of in/sec is used to evaluate constructiongenerated vibration. The Project does not include operational sources of groundborne vibration.

# **Existing Environmental Setting**

The Project Site is located within the East Desert Communities planning area of the County. The County's Zoning Map identifies the zoning of the Project Site as Resource Conservation.<sup>3</sup> The RC land use zoning district provides sites for: Recreational activities, such as campgrounds, recreational vehicle parks, and equestrian facilities; single-family homes at a density of one per 40 acres; electric power generation facilities; transportation facilities; government offices and hospitals; and other similar and compatible uses. Renewable energy generation facilities are an allowed land use within the RC land use zoning

<sup>&</sup>lt;sup>1</sup> California Department of Transportation (Caltrans), *Technical Noise Supplement to the Traffic Noise Analysis Protocol*, 2013. Available at <u>https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tens-sep2013-a11y.pdf</u>. Accessed August 18, 2021.

<sup>&</sup>lt;sup>2</sup> Federal Highway Administration (FHWA), *Construction Noise Handbook Notice*, 2006. Available at <u>https://www.fhwa.dot.gov/environment/noise/construction\_noise/handbook/</u>. Accessed August 18, 2021.

<sup>&</sup>lt;sup>3</sup> County of San Bernardino, Zoning Maps, 2006. Available at <u>https://cms.sbcounty.gov/lus/Planning/ZoningOverlayMaps/ZoningMaps.aspx#Desert</u>. Accessed on August 4, 2022.

district. The Countywide Plan designates the Project Site as Resource Land Management (RLM). In addition to the previous list, uses permitted within the RLM designation include mineral extraction, natural resource conservation areas, military facilities, lands under control of the State and federal government, and tribal entities. Solar generation facilities are allowed under the RLM/RC land use designation and zoning district with a Conditional Use Permit. Existing development in the area includes rural access roads and scattered rural residences. Current land use within the Project Site includes scattered structures associated with an abandoned rural residence, garage (storage) areas, and several WAPA towers. U.S. Route 95 borders the Project Site to the west and is classified as a Major Highway in the San Bernardino County General Plan Circulation Element. Existing noise occurs mainly from on-site and nearby agricultural activities and minor background noise from vehicular traffic traveling on U.S. Route 95 to the west.

# Existing Ambient Noise Environment

Noise sources at the Project Site consist primarily of traffic along U.S. Route 95. Since there have been no ambient noise measurements either at the Project Site or the nearest land uses, estimates were made using the traffic volumes identified in the 2020 Traffic Data and Truck Volumes on a State Highway by the California Department of Transportation (Caltrans). Based on this traffic data, that segment of U.S. Route 95 north of State Route 62 has a traffic volume of 2,900 average daily traffic (ADT) posted speed limit of 55 miles per hour (MPH). Truck traffic makes up approximately 25 percent of the ADT. At distances of 50 feet to from U.S. Route 95, using soft propagation, the ambient noise would be approximately 70 dBA and at a distance of 200 feet would drop to 61 dBA CNEL. Conservatively, the noise levels during the nighttime hours could be 10 dB lower.

# Noise Sensitive Receptors

Noise-sensitive land uses are generally considered to include single- and multi-family residential areas, group homes, parks, and open space lands where quiet is a basis for use. Additional land uses such as schools, churches, libraries, and other places where low interior noise levels are essential are also considered noise-sensitive land uses. The nearest occupied noise-sensitive receptor to the Project Site is a residential use approximately 1,600 feet to the north along Old Parker Road.

# 4.8.3 Regulatory Setting

# Federal

# Occupational Safety and Health Administration

With the Occupational Safety and Health Act of 1970, Congress created the Occupational Safety and Health Administration (OSHA) to ensure safe and healthful working conditions for working men and women by setting and enforcing standards and by providing training, outreach, education, and assistance. The Act requires protection against the effects of noise exposure for employees when sound levels exceed 90 dBA over an eight-hour period. If such controls fail to reduce sound levels to within acceptable levels, personal protective equipment is required. Additionally, a Hearing Conservation Program must be instituted by employers whenever employee noise exposure equals or exceeds an eight-hour time-weighted average sound level of 85 dBA. The Hearing Conservation Program requirements consist of periodic area and personal noise monitoring, performance and evaluation of audiograms, provision of hearing protection, annual employee training, and record keeping.

# The Noise Control Act of 1972 (P.L. 92-574)

The federal Office of Noise Abatement and Control (ONAC) was initially tasked with implementing the Noise Control Act. However, the ONAC has since been eliminated, leaving the development of federal noise policies and programs to other federal agencies and interagency committees. For example, OSHA prohibits exposure of workers to excessive sound levels. The U.S. Department of Transportation (USDOT) assumed a significant role in noise control through its various operating agencies. The Federal Aviation Administration (FAA) regulates noise of aircraft and airports. Surface transportation system noise is regulated by a host of agencies, including the Federal Transit Administration (FTA). Transit noise is regulated by the federal Urban Mass Transit Administration (UMTA), while freeways that are part of the interstate highway system are regulated by the Federal Highway Administration (FHWA). Finally, the federal government actively advocates that local jurisdictions use their land use regulatory authority to arrange new development in such a way that "noise sensitive" uses are either prohibited from being sited adjacent to a highway or, alternately, that the developments are planned and constructed in such a manner that potential noise impacts are minimized.

Although the Project is not under the jurisdiction of the FTA, the FTA is the only agency that has defined what constitutes a significant noise impact from implementing a project. Table 4.8-1, FTA Project Effects on Cumulative Noise Exposure, provides the thresholds utilized by the FTA for permanent noise level increase at the project level. As shown in Table 4.8-1, the allowable cumulative noise level increase created from a project would range from 0 to 7 dBA based on the existing (ambient) noise levels in the project vicinity. The justification for the sliding scale is that people already exposed to high levels of noise should be expected to tolerate only a small increase in the amount of noise in their community. In contrast, if the existing noise levels are quite low, it is reasonable to allow a greater change in the community noise for the equivalent difference in annoyance.

	Allowable Noise Impact Exposure dBA L <sub>eq</sub> or L <sub>dn</sub>					
Existing Noise Exposure (dBA L <sub>eq</sub> or L <sub>dn</sub> )	Project Only	Combined	Noise Exposure Increase			
45	51	52	+7			
50	53	55	+5			
55	55	58	+3			
60	57	62	+2			
65	60	66	+1			
70	64	71	+1			
75	65	75	0			
Source: Federal Transit Administration (FTA), <i>Transit Noise and Vibration Impact Assessment</i> , May 2006. Available at https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/FTA_Noise_and_Vibration_Manual.pdf, Accessed September 29.						

#### Table 4.8-1: FTA Project Effects on Cumulative Noise Exposure

2022.

# State

# California Noise Control Act of 1973

California Health and Safety Code (HSC) Sections 46000 through 46080, known as the California Noise Control Act, find that excessive noise is a serious hazard to public health and welfare and that exposure to certain levels of noise can result in physiological, psychological, and economic damage. The California Noise Control Act also finds that there is a continuous and increasing bombardment of noise in urban, suburban, and rural areas. The California Noise Control Act declares that the State has a responsibility to protect the health and welfare of its citizens through the control, prevention, and abatement of noise. It is the policy of the state to provide an environment for all Californians that is free from noise that jeopardizes their health or welfare.

# California Department of Health Services Office of Noise Control

Established in 1973, the California Department of Health Services Office of Noise Control (ONC) was instrumental in developing regularity tools to control and abate noise for use by local agencies. One significant model is the "Land Use Compatibility for Community Noise Environments Matrix," which allows the local jurisdiction to clearly delineate compatibility of sensitive uses with various incremental levels of noise.

# California Noise Insulation Standards

Title 24, Chapter 1, Article 4 of the California Administrative Code (California Noise Insulation Standards) requires noise insulation in new hotels, motels, apartment houses, and dwellings (other than single-family detached housing) that provides an annual average noise level of no more than 45 dBA CNEL. When such structures are located within a 60-dBA CNEL (or greater) noise contour, an acoustical analysis is required to ensure that interior levels do not exceed the 45-dBA CNEL annual threshold. In addition, Title 21, Chapter 6, Article 1 of the California Administrative Code requires that all habitable rooms, hospitals, convalescent homes, and places of worship shall have an interior CNEL of 45 dB or less due to aircraft noise.

# Government Code Section 65302

Government Code Section 65302 mandates that the legislative body of each county and city in California adopt a noise element as part of its comprehensive general plan. The local noise element must recognize the land use compatibility guidelines published by the State Department of Health Services. The guidelines rank noise land use compatibility in terms of normally acceptable, conditionally acceptable, normally unacceptable.

# California Vehicle Code Section 27200-27207 – On-Road Vehicle Noise

California Vehicle Code Section 27200-27207 provides noise limits for vehicles operated in California. For vehicles over 10,000 pounds, noise is limited to 88 dB for vehicles manufactured before 1973, 86 dB for vehicles manufactured before 1975, 83 dB for vehicles manufactured before 1988, and 80 dB for vehicles manufactured after 1987. All measurements are based at 50 feet from the vehicle.

#### California Vehicle Code Section 38365-38380 – Off-Road Vehicle Noise

California Vehicle Code Section 38365-38380 provides noise limits for off-highway motor vehicles operated in California as follows: 92 dBA for vehicles manufactured before 1973, 88 dBA for vehicles manufactured before 1975, 86 dBA for vehicles manufactured before 1986, and 82 dBA for vehicles manufactured after December 31, 1985. All measurements are based at 50 feet from the vehicle.

#### Local

#### County of San Bernardino Countywide Plan/Policy Plan

The County's Countywide Plan, adopted on October 27, 2020, serves as a new set of plans and tools for the County's unincorporated communities and complements the Countywide vision. The Policy Plan is a component of the Countywide Plan that is an update and expansion of the County's General Plan for the unincorporated areas. The following goals and policies are applicable to the Project:

#### Hazards Element

Goal HZ-2	Human-Generated Hazards: Human-generated Hazards. People and the natural
	environment protected from exposure to hazardous materials, excessive noise, and
	other human-generated hazards.

- **Policy HZ-2.7 Truck delivery areas.** We encourage truck delivery areas to be located away from residential properties and require associated noise impacts to be mitigated.
- Policy HZ-2.8 Proximity to noise generating uses. We limit or restrict new noise sensitive land uses in proximity to existing conforming noise generating uses and planned industrial areas.
- **Policy HZ-2.9 Control sound at the source.** We prioritize noise mitigation measures that control sound at the source before buffers, soundwalls, and other perimeter measures.

#### Infrastructure & Utilities Element

Policy IU-5.5 Energy and fuel facilities. We encourage the development and upgrade of energy and regional fuel facilities in areas that do not pose significant environmental or public health and safety hazards, and in a manner that is compatible with military operations and local community identity.

#### San Bernardino County Code of Ordinance

Chapter 83.01, Section 83.01.080, *Noise*, of the San Bernardino County Code of Ordinance establishes standards concerning acceptable noise levels for both noise-sensitive land uses and for noise-generating land uses. The following sections of the San Bernardino County Code are applicable to the Project:

#### § 83.01.080 Noise

This Section establishes standards concerning acceptable noise levels for both noise-sensitive land uses and for noise-generating land uses.

- (c) Noise Standards for Stationary Noise Sources
  - (1) *Noise Standards*. Table 83-2 (**Table 4.8-2**, *Noise Standards for Stationary Noise Sources*) describes the noise standard for emanations from a stationary noise source, as it affects adjacent properties.

7 a.m. – 10 p.m. (L <sub>eq</sub> )	10 p.m. – 7 a.m. (L <sub>eq</sub> )				
55 dB(A)	45 dB(A)				
55 dB(A)	55 dB(A)				
60 dB(A)	60 dB(A)				
70 dB(A)	70 dB(A)				
Notes: L <sub>eq</sub> = (Equivalent Energy Level). The sound level corresponding to a steady-state sound level containing the same total energy as a time-varying signal over a given sample period, typically one, eight or 24 hours. dB(A) = (A-weighted Sound Pressure Level). The sound pressure level, in decibels, as measured on a sound level mater using the A-weighting filter network. The A-weighting filter do emphasizes the A-weighted ward ward					
	7 a.m. – 10 p.m. (L <sub>eq</sub> ) 55 dB(A) 55 dB(A) 60 dB(A) 70 dB(A) ro dB(A) esponding to a steady-state en sample period, typically of nd pressure level, in decibel a-weighting filter de-empha				

#### Table 4.8-2: Noise Standards for Stationary Noise Sources

high frequency components of the sound, placing greater emphasis on those frequencies within the sensitivity range of the human ear.  $L_{dn} = (Day-Night Noise Level)$ . The average equivalent A-weighted sound level during a 24-hour day obtained by adding 10 decibels to the hourly noise levels measured during the night (from 10 p.m. to 7 a.m.). In this

way L<sub>dn</sub> takes into account the lower tolerance of people for noise during nighttime periods.

Source: Codified Ordinances of the County of San Bernardino, Section 83.01.080, Table 83-2.

- (2) *Noise Limit Categories*. No person shall operate or cause to be operated a source of sound at a location or allow the creation of noise on property owned, leased, occupied, or otherwise controlled by the person, which causes the noise level, when measured on another property, either incorporated or unincorporated, to exceed any one of the following:
  - (A) The noise standard for the receiving land use as specified in Subdivision (b) (Noise-Impacted Areas), above, for a cumulative period of more than 30 minutes in any hour.
  - (B) The noise standard plus five dB(A) for a cumulative period of more than 15 minutes in any hour.
  - (C) The noise standard plus ten dB(A) for a cumulative period of more than five minutes in any hour.
  - (D) The noise standard plus 15 dB(A) for a cumulative period of more than one minute in any hour.
  - (E) The noise standard plus 20 dB(A) for any period of time.
- (d) Noise Standards for Adjacent Mobile Noise Sources. Noise from mobile sources may affect adjacent properties adversely. When it does, the noise shall be mitigated for any new development to a level that shall not exceed the standards described in the following Table 83-3 (Table 4.8-3, Noise Standards for Adjacent Mobile Noise Sources).

Catagorias	lleos		L <sub>dn</sub> (or CNEL) db(A) <sup>4</sup>		
Categories	Uses	Interior <sup>1</sup> E			
Residential	Single and multi-family, duplex, mobile homes	45	60 <sup>3</sup>		
	Hotel, motel, transient housing	45	60 <sup>3</sup>		
	Commercial retail, bank, restaurant	50	65		
Commercial	Office building, research and development, professional offices	45	N/A		
	Amphitheater, concert hall, auditorium, movie theater	45	65		
Institutional/Public	Hospital, nursing home, school classroom, religious institution, library	45	N/A		
Open Space	Park	N/A	65		

#### Table 4.8-3: Noise Standards for Adjacent Mobile Noise Sources

Notes:

1 The indoor environment shall exclude bathrooms, kitchens, toilets, closets and corridors.

- 2. The outdoor environment shall be limited to:
  - Hospital/office building patios
  - Hotel and motel recreation areas
  - Mobile home parks
  - Multi-family private patios or balconies
  - Park picnic areas
  - Private yard of single-family dwellings
  - School playgrounds
- 3. An exterior noise level of up to 65 dB(A) (or CNEL) shall be allowed provided exterior noise levels have been substantially mitigated through a reasonable application of the best available noise reduction technology, and interior noise exposure does not exceed 45 dB(A) (or CNEL) with windows and doors closed. Requiring that windows and doors remain closed to achieve an acceptable interior noise level shall necessitate the use of air conditioning or mechanical ventilation.
- CNEL = (Community Noise Equivalent Level). The average equivalent A-weighted sound level during a 24-hour day, obtained after addition of approximately five decibels to sound levels in the evening from 7 PM to 10 PM and ten decibels to sound levels in the night from 10 PM to 7 AM.

Source: Codified Ordinances of the County of San Bernardino, Section 83.01.080, Table 83-3.

- (e) Increases in Allowable Noise Levels. If the measured ambient level exceeds any of the first four noise limit categories in Subdivision (d)(2), above, the allowable noise exposure standard shall be increased to reflect the ambient noise level. If the ambient noise level exceeds the fifth noise limit category in Subdivision (d)(2), above, the maximum allowable noise level under this category shall be increased to reflect the maximum ambient noise level.
- (f) Reductions in Allowable Noise Levels. If the alleged offense consists entirely of impact noise or simple tone noise, each of the noise levels in Table 83-2 (Table 4.8-2, Noise Standards for Stationary Noise Sources) shall be reduced by five dB(A).
- (g) Exempt Noise. The following sources of noise shall be exempt from the regulations of this Section:
  - (1) Motor vehicles not under the control of the commercial or industrial use.
  - (2) Emergency equipment, vehicles, and devices.
  - (3) Temporary construction, maintenance, repair, or demolition activities between 7 AM and 7 PM, except Sundays and Federal holidays.

#### § 83.01.090 Vibration

- (a) *Vibration Standard*. No ground vibration shall be allowed that can be felt without the aid of instruments at or beyond the lot line, nor shall any vibration be allowed which produces a particle velocity greater than or equal to two-tenths inches per second measured at or beyond the lot line.
- (b) Vibration Measurement. Vibration velocity shall be measured with a seismograph or other instrument capable of measuring and recording displacement and frequency, particle velocity, or acceleration. Readings shall be made at points of maximum vibration along any lot line next to a parcel within a residential, commercial, and industrial land use zoning district.
- (c) *Exempt Vibrations*. The following sources of vibration shall be exempt from the regulations of this Section.
  - (1) Motor vehicles not under the control of the subject use.
  - (2) Temporary construction, maintenance, repair, or demolition activities between 7 AM and 7 PM, except Sundays and Federal holidays.

# 4.8.4 Thresholds of Significance

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to noise if it would:

- **Threshold (a):** Generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
- Threshold (b): Generate excessive groundborne vibration or groundborne noise levels; or
- Threshold (c): For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels.

As identified in Section 6.5: Effects Found Not to Be Significant, impacts related to Threshold (c) were determined to have no impact and do not require further analysis in the Draft EIR.

# 4.8.5 Methodology

Noise is defined as unwanted or annoying sound which interferes with or disrupts normal activities. Exposure to high noise levels has been demonstrated to cause hearing loss. The individual human response to environmental noise is based on the sensitivity of that individual, the type of noise that occurs and when the noise occurs. Sound is measured on a logarithmic scale consisting of sound pressure levels known as a dB. The sounds heard by humans typically do not consist of a single frequency but of a broadband of frequencies having different sound pressure levels. The method for evaluating all the frequencies of the sound is to apply an A-weighting to reflect how the human ear responds to the different sound levels at different frequencies. The A-weighted sound level adequately describes the instantaneous noise whereas the equivalent sound level depicted as L<sub>eq</sub> represents a steady sound level containing the same total acoustical energy as the actual fluctuating sound level over a given time interval.

The CNEL is the 24 hour A-weighted average for sound, with corrections for evening and nighttime hours. The corrections require an addition of 5 decibels to sound levels in the evening hours between 7 p.m. and 10 p.m. and an addition of 10 dB to sound levels at nighttime hours between 10 p.m. and 7 a.m. These additions are made to account for the increased sensitivity during the evening and nighttime hours when sound appears louder.

Because mobile/traffic noise levels are calculated on a logarithmic scale, a doubling of the traffic noise or acoustical energy results in a noise level increase of 3 dBA. Therefore, the doubling of the traffic volume, without changing the vehicle speeds or mix ratio, results in a noise increase of 3 dBA. Mobile noise levels radiate from the source and drop off at a rate of 3 dBA for each doubling of distance under hard site conditions and at a rate of 4.5 dBA for soft site conditions. Hard site conditions consist of concrete, asphalt and hard pack dirt while soft site conditions exist in areas having grade changes, landscaped areas and vegetation. On the other hand, fixed/point sources radiate outward uniformly as it travels away from the source and the sound levels attenuate or drop off at a rate of 6 dBA for each doubling of distance.

# 4.8.6 **Project Impact Analysis**

# Threshold (a): Would the Project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

# Construction

Project construction is anticipated to be completed over a period of approximately 14 months. Construction equipment would include standard equipment such as graders, scrapers, backhoes, loaders, cranes, dozers, water trucks, portable generators and air compressors, and miscellaneous trucks. Noise levels from construction equipment have the potential to exceed 80 dBA. At approximately 1,600 feet to the nearest occupied residence, noise levels due to construction would be reduced a minimum of 30 dBA and would not contribute to the overall ambient noise levels. While the Project is located within the Resource Conservation land use zoning district, Section 83.01.080 of the County's Development Code sets an exterior noise limit for residential noise sensitive land uses of 55 dBA  $L_{eq}$  for daytime hours of 7 a.m. to 10 p.m. and 45 dBA  $L_{eq}$  during the noise sensitive nighttime hours of 10 p.m. to 7 a.m.

No Project construction activity is planned outside these hours. Additionally, all equipment would be properly fitted with mufflers and all staging and maintenance would be conducted as far away from the nearest occupied residence as possible. Noise levels from construction equipment have the potential to exceed 80 dBA at a distance of 80 feet. At over 1,600 feet to the nearest residence, noise levels due to construction would be reduced a minimum of 30 dBA and would not contribute to the overall ambient noise levels. Therefore, no impacts are anticipated, and no mitigation is required during Project construction.

# Operation

Operation and maintenance of the Project would include permanent and temporary noise sources associated with the solar photovoltaic (PV) systems, electrical collection lines, gen-tie power lines, battery energy storage system (BESS), and maintenance activities. The San Bernardino County Development Code Section 83.01.080(c) establishes the noise level standards for stationary noise sources. Since the Project would potentially impact adjacent noise-sensitive uses in the Project area, the more conservative residential noise level standards were used to describe potential operational noise impacts. For residential

properties, the exterior noise level shall not exceed 55 dBA  $L_{eq}$  during the daytime hours (7:00 a.m. to 10:00 p.m.) and 45 dBA  $L_{eq}$  during the nighttime hours (10:00 p.m. to 7:00 a.m.). The County operational noise level standards are shown in **Table 4.8-2**, above.

The Project Site is within the East Desert Communities planning area. The County's Zoning Map identifies the zoning of the Project Site as RC. The RC land use zoning district provides sites for open space and recreational activities, single-family homes on very large parcels, and similar and compatible uses. Commercial renewable energy facilities are an allowable land use within the RC land use zoning district Existing development in the area includes rural access roads and scattered rural residences. Current land uses within the Project Site include scattered structures associated with an abandoned rural residence, garage (storage) areas, and several WAPA towers.

The surrounding land uses are also within the RC land use zoning district, therefore are considered noisesensitive land uses (NSLUs) of single-family residences. The nearest occupied residence is located approximately 1,600 feet to the north along Old Parker Road. Section 83.01.080 of the County's Development Code sets a most restrictive operational exterior noise limit for residential noise sensitive land uses of 55 dBA  $L_{eq}$  for daytime hours of 7 AM to 10 PM and 45 dBA  $L_{eq}$  during the noise sensitive nighttime hours of 10 PM to 7 AM as shown in **Table 4.8-3** above. Most of the Project components will only operate during the daytime hours but a few may operate during nighttime or early morning hours and therefore the most restrictive and conservative approach is to apply the 45 dBA  $L_{eq}$  nighttime standard at the property lines.

# Solar PV Systems

Panels would be electrically connected into panel strings using wiring attached to the racking, which would connect via underground wiring. Gathering lines would connect individual panel strings to one or more inverters/transformers and combiner boxes distributed throughout the facility. Wiring from the panel strings are connected to combiner boxes. The electrical current is then transferred to the inverters, which convert the Direct Current (DC) produced by the PV solar panels into Alternating Current (AC). A pad-mounted transformer next to the inverter would increase the voltage. The AC would then travel through underground gathering lines to the Project Substation.

# Inverters and Transformers

Each inverter station would contain at a minimum one inverter and one transformer. This equipment would be installed on concrete pads. Central inverters would be utilized for the Project. Central Inverters are generally clustered in 2 to 3 Mega-Watt, Alternating Current (MWac) equipment pads. Each inverter station would be equipped with a step-up transformer to convert the power output from the inverters from 550–400 V AC on the "low side" to 34.5 kV on the "high side." It is estimated that a total of 48 inverter stations would be required for the Project. The maximum dimensions of each station would be 21.7 feet by 7 feet, and 7 feet in height. The total number of inverter stations and the overall dimensions of each inverter station, which would be determined during final design.

# Battery Energy Storage System

The Project would include a battery energy storage system (BESS) with a capacity of 640 megawatt hours (MWh). The BESS would likely consist of containers housing batteries connected in strings and mounted

on racks. The container would likely include a transformer, monitoring equipment, and lighting and cooling equipment. However, some BESS equipment (e.g., inverters, auxiliary transformer to control the HVAC system) may be adjacent to the container instead of located within the container. The Project would utilize up to 48 containers (depending on container dimensions). Each container would be up to 80 feet long by 8 feet wide and 8 feet tall.

# Tracker Motors

The single-axis rack system will be equipped with a tracker motor to rotate the PV panels. The proposed HEM FS3350M Inverters have a noise level rating of 79 dB at 3 feet (Power Electronics). There will be a transformer along with a set of inverters. The proposed transformers have an unshielded noise rating of less than 65 dBA at 1 feet.<sup>4</sup> The proposed battery storage containers were tested and found to have an unshielded noise rating of 75 dBA at 1 meter (3 feet). The Project could potentially use 3,000 kVA transformers with unshielded noise levels anticipated to be 71 dBA at 3 feet.<sup>5</sup> The purpose of the substation is to collect the energy received and increase the voltage from 34.5–138 kV. Once the voltage is stepped up to 138kV, the power would be conveyed through the gen-tie line to the regional substation. The transformer at the on-site substation would be either a 50 megavolt amperes (MVA) or 70 MVA step up transformer. A transformer with 50 MVA or 70 MVA capacity has a noise level rating of 72 dB at 5 feet.<sup>6</sup> The noise levels from the proposed PV tracker motors combined with the dryers/blowers needed to remove condensation from the panels was found to be 44 dBA at 50 feet.<sup>7</sup> This noise level would be the hourly level if the equipment were to operate for an entire hour. Panel washing is anticipated to occur approximately one time per year and would take approximately 4 to 8 weeks to complete. Washing of the photovoltaic panels/arrays would generally occur during the daytime hours of 7 a.m. to 10 p.m. During panel/array washing times, the Project's power system would still be operational. Therefore, the panel washing activity is addressed cumulatively with other operational noise sources.

# Panel Washing

Noise exposure from the proposed operation of the solar panel wash station was found to have a reference maximum sound power level of 99 dB at 9 feet. This would equate to a sound pressure level of 67 dBA at 9 feet. To reduce the noise level of 67 dBA to the County's most restrictive 55 dBA threshold the wash station would need to be located 35 feet from the nearest property line. At a distance of 80 feet, the panel washing would result in a property line noise level of 48 dBA. Since the paneling washing equipment will not be located near a property line for an hour or more and will be moving farther away from the property line as washing is conducted. Therefore, a less than significant impact would occur.

The noise levels of the transformers, inverters, substation, and multiple PV tracker motors were combined and propagated out to the worst case property lines at a common location. The results of the propagated noise levels are shown in **Table 4.8-4**, *Operational Noise Levels – Location 1*, and **Table 4.8-5**, *Operational Noise Levels – Location 2*. **Figure 4.8-1**, *Noise Measurement Locations*, shows the worst case location

<sup>&</sup>lt;sup>4</sup> National Electric Manufactures Association (NEMA), TR-1: Transformers, Regulators, and Reactors, 1993. Available at <u>https://www.scribd.com/doc/154097009/NEMA-Standards-Publication-No-TR-1-1993-R2000</u>. Accessed on August 4, 2022.

<sup>&</sup>lt;sup>5</sup> National Electric Manufactures Association (NEMA), TR-1: Transformers, Regulators, and Reactors, 1993.

<sup>&</sup>lt;sup>6</sup> Soitec Solar Development Project, Final Program EIR, February 18, 2015. Available at <u>https://www.sandiegocounty.gov/content/sdc/pds/ceqa/Soitec-Solar-RFPEIR.html</u>. Accessed on August 4, 2022.

<sup>&</sup>lt;sup>7</sup> Soitec Solar Development Project, Final Program EIR.

scenarios. The combined noise level at the nearest property lines were projected to be 45 dBA  $L_{eq}$  or less based on the proposed site configuration and the proposed equipment as described above. Since not all equipment will be simultaneously operating no impacts are anticipated, the Project will comply with the most restrictive nighttime property line standard of 45 dBA  $L_{eq}$ , and no mitigation is needed.

Source	Distance from Source to Measurement Location (Feet)	Sources at that Common Distance	Noise Levels Combined (dBA)	Distance to Nearest Property Line (feet)	Noise Reduction due to distance (dBA)	Resultant Noise Level at Property Line (dBA L <sub>eq</sub> )
Transformer	3	1	71	270	-49	32
Inverter	3	1	79	270	-39	40
BESS	3	1	75	320	-41	34
Transformer	1	1	65	270	-49	16
Inverter	3	1	79	270	-39	40
BESS	3	1	75	320	-41	34
Tracker	50	1	44	80	-4	40
Cumulative Noise Level at Property Line (dBA L <sub>eq</sub> )						44

#### Table 4.8-4: Operational Noise Levels - Location 1

#### Table 4.8-5: Operational Noise Levels - Location 2

Source	Distance from Source to Measurement Location (Feet)	Sources at that Common Distance	Noise Levels Combined (dBA)	Distance to Nearest Property Line (feet)	Noise Reduction due to distance (dBA)	Resultant Noise Level at Property Line (dBA Leq)
Transformer	3	3	71	1240	-52	23
Inverter	3	3	79	1240	-52	31
BESS	3	3	75	1240	-52	27
Substation	5	1	72	340	-37	35
Tracker	50	1	44	80	-4	25
Cumulative Noise Level at Property Line (dBA L <sub>eq</sub> )						38

Cumulatively, the panel washing noise level of 48 dBA combined with the transformer and inverter noise levels would result in an overall cumulative noise level of 50 dBA or less. Since the panel washing equipment would only operate during the daytime hours of 7 a.m. and 10 p.m., the noise levels would not exceed the County's daytime threshold of 55 dBA. Additionally, the paneling washing will be moving farther away from the property line as washing is conducted. Therefore, impacts would be less than significant.



# Decommissioning

When the Project is decommissioned, equipment operation and site restoration activities would result in a temporary increase in ambient noise levels in the Project vicinity. Decommissioning would first involve removing the PV panels for sale into a secondary solar PV panel market or recycling. The Calcite Substation would not be decommissioned. Most of the components of the solar installation are made of materials that can be easily recycled. If the panels can no longer be used in a solar array, the aluminum can be resold, and the glass recycled. Other components of the solar installation, such as the solar array structure and mechanical assemblies, can be recycled since they are made from galvanized steel. Equipment such as inverters and switchgear can be reused, or their components recycled. The equipment pads are made from concrete that can be crushed and recycled. Conduit and wire would be removed by uncovering trenches and backfilling when done. The electrical wiring is made from copper and/or aluminum and could also be reused or recycled.

Dismantling the solar and energy storage site would entail disassembly of the solar facilities and substantive restoration of the site. Closure and decommissioning of the site would involve the following:

- The aboveground (detachable) equipment and structures would be disassembled and removed from the site. Detachable elements include all solar arrays, inverters, and associated controllers. Most of these materials can be recycled or reclaimed. Remaining materials would be limited, contained and disposed of at an appropriate off-site facility.
- Removal of solar array posts would entail vibration extraction in the case of vibration or conventional pile-driven installation. For solar arrays supported by concrete encasements, if any, the concrete would be fully removed. Recycling of solar arrays is anticipated; concrete would be disposed of or recycled off-site.
- Collector components would be removed.
- If a new use was not proposed, the decommissioning would include removal of all ground-level components and preparation of the site with a soil stabilization agent, such as a nontoxic permeable soil binding agent.

Given the fact that much of the construction equipment necessary to construct the Project would also be required for Project decommissioning, it is reasonable to assume that noise generated from decommissioning activities would be similar in nature to construction activities. Similar to the construction noise analysis above, Project decommissioning would potentially result in increased noise levels compared to existing conditions. However, San Bernardino County Code Section 83.01.080 exempts construction activities from the noise standard providing that such activities take place between the hours of 7:00 a.m. to 7:00 p.m. except Sundays and Federal holidays. Therefore, upon compliance with the County's allowable construction hours (San Bernardino County Code Section 83.01.080), short-term noise impacts from decommissioning activities would be less than significant.

# Threshold (b): Would the Project result in generation of excessive groundborne vibration or groundborne noise levels?

# Construction

Project construction, including site preparation and testing/commissioning/cleanup would not require blasting. However, impact-post driving or drilling would be utilized for system installation (i.e. installation of the PV arrays foundations support posts) and could cause vibration impacts at close distances. While

these construction activities would result in some minor amounts of groundborne vibration, such groundborne vibration would attenuate rapidly from the source and would not be generally perceptible outside of the Project Site. Groundborne vibration generated during construction activities between the hours of 7 a.m. to 7 p.m. (except Sundays and Federal holidays) is exempt pursuant to San Bernardino County Code Section 83.01.090. Nonetheless, a quantitative analyses is presented below.

The FTA has published standard vibration velocities for construction equipment operations. In general, the FTA architectural damage criterion for continuous vibrations (i.e., 0.2 inch/second) appears to be conservative. The types of construction vibration impact include human annoyance and building damage. Human annoyance occurs when construction vibration rises significantly above the threshold of human perception for extended periods of time. Building damage can be cosmetic or structural. This distance can vary substantially depending on the soil composition and underground geological layer between vibration source and receiver. The vibration produced by construction equipment, is illustrated in **Table 4.8-6**, *Typical Vibration Levels for Common Construction Equipment*.

Equipmo	ent	Reference peak particle velocity at 25 feet (in/sec)	Approximate peak particle velocity at 1,600 feet (in/sec) <sup>1</sup>
Pilo Drivor (Impact)	Upper Range	1.518	0.003
	Typical	0.644	0.001
Dila Driver (Cania)	Upper Range	0.000	0.001
Plie Driver (Sofiic)	Typical	0.000	<0.001
Auger/Drill Rigs		0.089	<0.001
Jackhammer		0.035	<0.001
Vibratory Hammer		0.035	<0.001
Vibratory Roller		0.210	<0.001
Large Bulldozer		0.089	<0.001
Loaded Trucks		0.076	<0.001
Small Bulldozer		0.003	<0.001
Note: 1 Calculated using the	following formula:	·	
$PPV_{equip} = PPV_{ref} \times (2)$	5/D) <sup>1.5</sup>		
PPV (equip) = the per	ak particle velocity	in in/sec of the equipment adjusted for the	he distance
PPV (ref) = the refe	rence vibration le	vel in in/sec from Table 7-4 of the FTA	Transit Noise and Vibration Impact
Assessment Manual			

#### Table 4.8-6: Typical Vibration Levels for Common Construction Equipment

D = the distance from the equipment to the receiver

Source: FTA, Transit Noise and Vibration Impact Assessment Manual, September 2018.

Groundborne noise and vibration decreases rapidly with distance. As indicated in **Table 4.8-6**, vibration velocities from typical heavy construction equipment operations that would be used during Project construction range from 0.003 to 1.518 in/sec PPV at 25 feet from the source of activity. It should be noted, however, that post driving would only occur during construction of the PV modules on-site. The nearest occupied noise-sensitive receptor to the Project Site is a residence located approximately 1,600 feet to the north. At this distance, vibration velocities would be imperceptible (i.e., up to 0.003 in/sec PPV). Therefore, the 0.2 in/sec PPV significance threshold and the 0.4 inch-per-second PPV human annoyance criteria would not be exceeded as a result of Project construction activities. Thus, no Project-related sources of groundborne vibration or groundborne noise would be expected to affect sensitive receptors in the Project vicinity, and there would not be any potential for excessive exposure of persons to or generation of groundborne vibration levels. Impacts would be less than significant.

# **Operation and Maintenance**

The Project would have operation and maintenance components, such as HVAC systems for the BESS, maintenance vehicles, inverters, and transformers, that would not generate noticeable groundborne vibration levels. Project operations would not involve any sources capable of generating perceptible levels of vibration in the surrounding area. There would be no permanent source or potential to change vibration levels, except during unscheduled maintenance or repair activities, which would be similar to construction activities. Regular maintenance trucks could generate 0.076 inch-per-second PPV a distance of 25 feet. Pursuant to San Bernardino County Code Section 83.01.090, groundborne vibration shall not exceed 0.2 in/sec PPV at the nearest property line within a residential, commercial and industrial land use zoning district. Regular maintenance trucks would not generate groundborne vibration levels exceeding the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold would not be exceeded, and impacts would be less than significant.

# Decommissioning

When the Project is decommissioned, equipment operation and site restoration activities could result in a temporary vibration impacts at close distances. Given the fact that much of the construction equipment necessary to construct the Project would also be required for Project decommissioning, it is reasonable to assume that vibration generated from decommissioning activities would be similar in nature to construction activities. As with the construction activities described above, decommissioning activities would not be expected to generate groundborne noise that would affect sensitive receptors in the Project vicinity, and there would not be any potential for excessive exposure of persons to or generation of groundborne vibration levels. Impacts would be less than significant.

# 4.8.7 Cumulative Impacts

Chapter 3.0, Environmental Setting, of this Draft EIR provides a list of related projects that would have the potential to be considered in a cumulative context with the Project's incremental contribution. These projects are summarized in **Table 3-2**, *Related Projects*, and shown in **Figure 3-1**, *Related Projects in the Planning Area*.

# **Construction Noise**

The Project's construction activities would not result in a substantial temporary increase in ambient noise levels at the nearest sensitive receptors. Construction noise would be periodic and temporary noise impacts that would cease upon completion of construction activities. The Project would contribute to other proximate construction project noise impacts if construction activities were conducted concurrently. However, based on the noise analysis above, the Project's construction-related noise impacts would be less than significant and would be required to comply with the San Bernardino County Code.

The combination of the Project together with other related present and reasonably foreseeable future projects in the Project vicinity could involve actions with the potential to result in noise impacts. However, construction noise impacts for each cumulative project would be mitigated through compliance with the County's standards and ordinances, and any necessary mitigation measures identified through the County's development review process. Thus, construction noise impacts would not be cumulatively considerable, and impacts would be less than significant.

# **Operational Noise**

Operation of the Project would not result in a substantial permanent increase in ambient noise levels from on-site stationary or off-site mobile traffic noise sources. In addition, cumulative projects in the Project vicinity would be subject to the development review process, which could include conditions of approval to minimize the exposure of sensitive receptors and other receiving land uses to excessive noise to the furthest extent possible. Therefore, operational noise impacts would not be cumulatively considerable, and impacts would be less than significant.

# **Decommissioning Noise**

Cumulative projects in the Project vicinity would likely be operational and contribute to the overall ambient noise conditions prior to Project decommissioning activities. Thus, temporary noise impacts from decommissioning activities associated with the Project would not likely combine with other cumulative projects in close proximity and at the same time.

As noted above, the Project's construction and operational vibration levels would not exceed any applicable thresholds for groundborne noise or vibration and would result in a less than significant impact. Therefore, vibration impacts would not be cumulatively considerable, and impacts would be less than significant.

# 4.8.8 Mitigation Measures

As detailed above, the Project would not result in significant impacts regarding noise and vibration. Therefore, no mitigation measures are required.

# 4.8.9 Level of Significance After Mitigation

No mitigation measures are required. Impacts related to noise and vibration would be less than significant.

# 4.9 TRANSPORTATION

# 4.9.1 Introduction

This section describes regulations related to transportation and the existing transportation systems in the Project vicinity, identifies significance criteria for impacts on transportation, and evaluates potential impacts associated with the Project. Information contained in this section is derived from the Trip Generation Memorandum, dated April 28, 2022, prepared by Linscott, Law & Greenspan, Engineers (LLG) (Appendix I).

As discussed throughout this section, in September 2013, the Governor signed Senate Bill (SB) 743. Among other provisions, this legislation mandated that the Office of Planning and Research (OPR) evaluate a new metric to analyze transportation impacts under the California Environmental Quality Act (CEQA). The County has moved forward with adopting the new vehicle miles traveled (VMT) metric and has developed VMT significance thresholds for CEQA. Therefore, this section analyzes potential transportation impacts of the Project based on the VMT metric.

# 4.9.2 Existing Environmental Setting

# **Regional Setting**

The Project Site is located approximately 2.5 miles southeast of Vidal, an unincorporated area of San Bernardino County (County) that is located just east of U.S. Route 95, just north of the Riverside County line, and just west of the Colorado River. The Project site is located within the Desert Region's East Desert Communities planning area of the County.

# **Existing Street Network**

The road and street network surrounding the site is primarily rural unpaved roads, and the U.S. Route 95. Some of these roads support access to transmission lines, scattered abandoned rural residences, garage (storage) areas, and several Western Area Power Administration (WAPA) towers. Wash areas accessible from these rural roads are also being used by off-highway vehicles. However, the area is not designated for recreational uses.

# 4.9.3 Regulatory Setting

# Federal

Federal rules and regulations govern many facets of the County's traffic and circulation system, including transportation planning and programming; funding; and design, construction, and operation of facilities. The County complies with all applicable rules and regulations of the Federal Highway Administration (FHWA), the Federal Transit Administration (FTA), the Federal Railroad Administration, the Federal Aviation Administration (FAA), and other federal agencies. In addition, the County coordinates with federal resource agencies where appropriate in the environmental clearance process for transportation facilities.

# State

As the County complies with federal rules and regulations, it also complies with applicable State rules and regulations, including those of the California Department of Transportation (Caltrans), and coordinates with State resource agencies.

# Senate Bill 743

On September 27, 2013, SB 743 was signed into State law and became effective on January 1, 2014. The California legislature found that with the adoption of the Sustainable Communities and Climate Protection Act of 2008 (SB 375), the State had signaled its commitment to encourage land use and transportation planning decisions and investments that reduce VMT and thereby contribute to the reduction of greenhouse gas (GHG) emissions, as required by the California Global Warming Solutions Act of 2006 (Assembly Bill [AB] 32).

SB 743 requires the California Governor's OPR to amend the CEQA Guidelines to provide an alternative to level of service (LOS) as the metric for evaluating transportation impacts under CEQA. Particularly within areas served by transit, SB 743 requires the alternative criteria to promote the reduction of greenhouse gas emissions, development of multimodal transportation networks, and diversity of land uses. The alternative metric for transportation impacts detailed in the CEQA Guidelines is VMT. Jurisdictions had until July 1, 2020, to adopt and begin implementing VMT thresholds for traffic analysis.

In addition, CEQA Guidelines Section 15064.3(c) states that the provisions of Section 15064.3 shall apply statewide beginning on July 1, 2020. The County issued their *Transportation Impact Study Guidelines* on July 9, 2019, to provide recommendations related to VMT assessment (both thresholds of significance and methodology for identifying VMT related impacts) and to refine the County's existing Transportation Impact Study Guidelines (TISG) to reflect methodologies for identifying impacts

# Regional

# Regional Transportation Plan/Sustainable Communities Strategy

The Southern California Association of Governments (SCAG), in which the County is a part of, adopted Connect SoCal (2020-2045 Regional Transportation Plan/Sustainable Communities Strategy [RTP/SCS]) on September 3, 2020. The 2020-2045 RTP/SCS is a long-range visioning plan that balances future mobility and sustainable growth with land use and transportation strategies to reach the region's GHG reduction goals. The 2020-2045 RTP/SCS includes the following specific goals and strategies that are applicable to the Project to integrate land use and transportation, such that the region can grow smartly and sustainably:

- Encourage regional economic prosperity and global competitiveness
- Reduce GHG emissions and improve air quality
- Adapt to a changing climate and support an integrated regional development pattern and transportation network

# San Bernardino Associated Governments Congestion Management Program

The Congestion Management Program (CMP) was established Statewide in 1990 to implement Proposition 111, tying appropriation of new gas tax revenues to congestion reduction efforts. The CMP is managed at the countywide level and primarily uses an LOS performance metric, which is inconsistent with more recent state efforts to transition to VMT-based performance metrics.

The San Bernardino Associated Governments (SANBAG) prepared the San Bernardino County CMP, in consultation with San Bernardino County and cities in the county, in an effort to align land use, transportation, and air quality management efforts and promote reasonable growth management programs that effectively use statewide transportation funds, while ensuring that new development pays its fair share of needed transportation improvements. In San Bernardino County, SANBAG is responsible for planning and managing vehicular congestion and coordinating regional transportation policies. The CMP was last updated in June 2016. The CMP includes goals that are supportive of maintaining and enhancing the multimodal transportation system and also includes, by association, the goals of the SCAG's 2016-2040 RTP/SCS.

Through the use of traffic impact analysis reports and Comprehensive Transportation Plan model forecasts, the CMP evaluates proposed land use decisions to ensure adequate transportation network improvements that are developed to accommodate future growth in population. If a CMP facility is found to fall below the level of service standard under either existing or future conditions, a deficiency plan must be prepared, adopted, and implemented by local jurisdictions that contribute to such situations.

Annual monitoring activities are a method of accountability for those local jurisdictions required to mitigate a network facility with substandard level of service. While this interjurisdictional approach provides political and technical consistency for future development in the county, the CMP is only a mechanism to be used to guide efforts in a more efficient manner. It is not to be considered a replacement to the Regional Transportation Plan (RTP).

# San Bernardino Countywide Transportation Plan

The San Bernardino County Transportation Authority (SBCTA), formerly known as SANBAG, developed the County's Countywide Transportation Plan (CTP), which was released in September 2015. The CTP has a horizon year of 2040 and serves as the County's input into the SCAG RTP/SCS. The purpose of the CTP is to lay out a strategy for long-term investment in and management of the County's transportation system. Key issues addressed by the CTP include transportation funding, congestion relief, economic competitiveness, system preservation and operations, transit system interconnectivity, air quality, sustainability, and GHG emission reductions. The CTP analyses a Year 2040 baseline scenario with traditional revenue sources and an aggressive scenario that assumes added revenue sources defined in SCAG's RTP/SCS. The CTP has developed a set of strategies to address issues such as air quality, goods movement, sustainability, and active transportation.

# Local

#### San Bernardino County Transportation Impact Study Guidelines

The County's TISG, dated July 9, 2019, provides a guide in assessing a proposed development project's potential transportation impacts. As stated within the TISG, a Transportation Impact Study is required if one or more of the following criteria is met:

- If a project generates 100 or more trips without consideration of pass-by trips during any peak hour.
- If a project is located within 300 feet of
  - The intersection of two streets designated as a Collector or higher in the County's General Plan or the Department's Master plan **or**
  - An impacted intersection as determined by the Traffic Division
- If a project creates safety or operational concerns.
- If a project has the potential to generate VMT that could result in a transportation impact as noted in the significance criteria presented within the TISG.
- If a project generates less than 100 trips without consideration of pass-by trips during any peak hour, a study may be required if there are special concerns.

As it relates to VMT, according to the County's TISG, land use projects that meet certain screening criteria are assumed to result in a less-than-significant transportation impact under CEQA and do not require a detailed quantitative VMT assessment. Consistent with OPR guidance, the County identifies the following project types as appropriate for screening. Projects need only meet one of the listed criteria to be screened from a VMT analysis:

- Local Community Projects. The following list of projects would be screened out:
  - o K-12 Schools
  - Local-serving retail less than 50,000 square feet
  - Local parks
  - o Day care centers
  - Local serving gas stations
  - Local serving banks
  - Student housing projects
  - Local serving community colleges that are consistent with the assumptions noted in the Regional Transportation plan/Sustainable Communities Strategy
- **Trip Generation Threshold.** Projects Generating less than 110 daily vehicle trips, which generally corresponds to the following "typical" development potentials:
  - 11 single family housing units
  - 12 multi-family, condominium, or townhouse units
  - 10,000 square feet of office
  - 15,000 square feet of light industrial
  - 63,000 square feet of warehouse
  - 79,000 square feet of high cube transload and short-term storage warehouse
  - 12 hotel rooms

- **Transit Priority Area (TPA).** Projects located within a TPA as determined in the most recent SCAG RTP/SCS.
- Low VMT Area. Projects located within a low VMT generating area as determined by the analyst based on the County's VMT efficient area maps online at: https://www.arcgis.com/apps/webappviewer/index.html?id=779a71bc659041ad995cd48d9ef4.

For projects that do not meet the screening criteria above, it should be considered to have a significant impact if the project VMT per person/employee is greater than 4 percent below the existing baseline VMT per person for the unincorporated County.

# San Bernardino Countywide Plan/Policy Plan

The County adopted the Countywide Plan/Policy Plan (Policy Plan) in October 2020. The Policy Plan provides an update of the County's General Plan addressing physical, social and economic issues facing the unincorporated portions of the County. The Policy Plan is a component of the Countywide Plan that is an update and expansion of the County's General Plan for the unincorporated areas. The following goals and policies are applicable to the Project:

# Transportation and Mobility Element

Goal TM-1	Roadway Capacity. Unincorporated areas served by roads with capacity that is
	adequate for residents, businesses, tourists, and emergency services.

- Policy TM-1.4Unpaved roadways. The County does not accept new unpaved roads into the County<br/>Maintained Road System, and we require all-weather treatment for all new unpaved<br/>roads.
- **Policy TM-1.6 Paved roads.** For any new development for which paved roads are required, we require the developer to construct the roads and we require the establishment of a special funding and financing mechanism to pay for roadway operation, maintenance, and set aside reserves.
- **Policy TM-1.8 Emergency access.** When considering new roadway improvement proposals for the CIP or RTP, we consider the provision of adequate emergency access routes along with capacity expansion in unincorporated areas. Among access route improvements, we prioritize those that contribute some funding through a local area funding and financing mechanism.

Hazards Element

**Policy HZ-1.15 Evacuation route adequacy.** We coordinate with CAL FIRE, California's Office of Emergency Services, and other local fire districts to identify strategies that ensure the maintenance and reliability of evacuation routes potentially compromised by wildfire, including emergency evacuation and supply transportation routes.

# 4.9.4 Thresholds of Significance

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to transportation if it would:

- **Threshold (a):** Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities;
- Threshold (b): Conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b);
- **Threshold (c):** Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment); or

Threshold (d): Result in inadequate emergency access.

As identified in Section 6.5: Effects Found Not to Be Significant, impacts related to Threshold (c) and Threshold (d) were determined to be less than significant and do not require further analysis in the Draft EIR.

# 4.9.5 Methodology

As discussed above, with implementation of SB 743, the updated Appendix G thresholds, and the County's TISG, vehicle delay is not considered a potential significant impact on the environment. As such, this analysis will not go into detail on the anticipated effect of the Project with respect to LOS. Instead, the focus of the analysis of transportation impacts is on VMT in order to reduce GHG. The County's TISG defines the methodology for analyzing a project's transportation impacts in accordance with SB 743.

# 4.9.6 **Project Impact Analysis**

# Threshold (a): Would the Project conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadways, bicycle and pedestrian facilities?

As noted in Section 5, CEQA Assessment – Active Transportation and Public Transit Analysis, of the TISG, in accordance with the CEQA Guidelines, a Transportation Impact Study should examine if a project is inconsistent with adopted policies, plans, or programs regarding active transportation or public transit facilities, or otherwise decreases the performance or safety of such facilities. However, the TISG does not include a list of transportation-related programs, plans, ordinances, and policies that should be consulted to identify the potential for conflicts with a project.

As detailed in the Trip Generation Memorandum (Appendix I), the Project is expected to generate approximately 40 trips per year associated with solar panel washing activities. The Project Site is also not located within 300 feet of an intersection of two Collector streets or higher, or any impacted intersections as determined by the Traffic Division. The Project is a utility-scale solar and energy storage facility and would not create safety or operational concerns. As described further below under Threshold (b), the Project would not generate VMT that would result in a significant impact. Therefore, the Project does not meet any of the screening criteria requiring that the Project complete a Transportation Impact Study.

Project construction is anticipated to be completed over a period of approximately 14 months, with construction occurring between the hours of between 7:00 a.m. and 7:00 p.m. every day except Sundays and Federal holidays in accordance with County noise standards. On-site workforce is expected to average 220 workers per day with a peak of up to 495 workers. During peak construction activities approximately an average of 495 employees would travel to and from the Project Site on a daily basis Monday through Friday, along with a maximum of 25 medium size trucks per day would be required. This translates to approximately 1,090 daily vehicle trips during Project construction. Construction traffic is considered temporary (approximately 14 months) and is not expected to negatively affect current operations of the

roadway network near the Project Site. The roadway network in the vicinity is characterized by freeflowing traffic conditions, with limited existing traffic. **Table 4.9-1**, *Construction Trip Generation*, provides the total daily and peak hour Project traffic volumes during the construction period.

		Daily Trips	AM Peak Hour		PM Peak Hour		
Use	Quantity	1/	Volume	Volume		Volume	
		Rate <sup>+</sup> (In + Out)	(ADT) <sup>2</sup>	In	Out	In	Out
Personnel	495	2.0 /personnel	990	99	10	10	99
Trucks <sup>3</sup>	25	2.0 /truck * (PCE	100	4	4	4	4
		of 2.0) <sup>4</sup>					
Subtotal	-	-	1,090	103	14	14	103

# Table 4.9-1: Construction Trip Generation

Notes:

<sup>1</sup> Rate accounts for the fact that personal and trucks enter and exit the site for a total of the trips each.

 $^{2}$  To estimate the employee traffic, it is assumed that 20% of the employee traffic would access the work area during the commuter peak hours.

<sup>3</sup> Truck trips are estimated to occur evenly throughout a 12-hour construction period proposed for the Project.

<sup>4</sup> A Passenger Car Equivalent (PCE) factor of 2.0 was applied based on HCM 6th Ed. to account for the diminished operations of trucks.

<sup>5</sup> Rate accounts for the fact that personal and trucks enter and exit the site for a total of the trips each.

#### Source: LLG, Trip Generation Memorandum (Appendix I).

As a standard condition of approval, and per comments received from the County Department of Public Works on the Conditional Use Permit (CUP) applications (Project #PROJ-2021-00012), the Project would be required to provide a Construction Traffic Management Plan (CTMP) to the County Department of Public Works, Transportation Operations Division prior to the issuance of grading permits. The CTMP will include the number of trucks, type of trucks (size), the total number of Equivalent Single Axle Loads, and planned truck routes to the Project Site during construction. This information will be used to determine if a maintenance agreement is required to ensure all County maintained roads utilized by Project construction traffic remain in acceptable condition during construction. In addition, Project construction traffic control measures, such as that listed below, would be included in the County-required CTMP:

- Timing the delivery of heavy equipment and building materials under the contractors' control during non-peak commute hours, to the extent feasible.
- Schedule construction traffic ingress/egress to not interfere with peak-hour traffic and to minimize traffic obstructions, to the extent feasible.
- Specifying oversize load haul routes.
- Directing construction traffic with a flag person, as needed.
- Placing temporary signing, lighting, and traffic control devices if required, including, but not limited to, appropriate signage along access routes to indicate the presence of heavy vehicles and construction traffic.
- Ensuring access for emergency vehicles to the Project Site.
- Temporarily closing travel lanes or delaying traffic during materials delivery or any other utility connections, if required.
- Maintaining access to adjacent properties.

Implementation of the CTMP would ensure that Project construction would not result in any access or traffic issues on roads surrounding the Project Site, such that there would be a conflict with a program, plan, ordinance, or policy addressing the circulation system. Therefore, impacts during Project construction would be less than significant. Solar panel washing is expected to occur two times per year. As such, this operational activity was included within the assumption that the Project would generate approximately 20 ADT once construction is completed. From a daily and peak hour perspective, these trips are considered nominal and would not be expected to impact the existing road network near the Project Site, including U.S. Route 95.

The roadway network in the vicinity is characterized by free-flowing traffic conditions, and vehicles on the roadway generally travel unimpeded by others. Therefore, traffic during Project operation would not conflict with the CMP standards.

Currently no vehicular access roads are provided to the Project Site. Site access would be provided via two access roads on the northern and southern portions of the west side of the site. Access points would have two double gates to help maintain security on-site. While existing unofficial roads would be utilized to the greatest extent possible, potential new unpaved roads may need to be constructed off site to serve as access roads from the existing road network to the Project. Any new perimeter roads surrounding the Project site would be a minimum of 20 feet wide, as required for fire department and emergency vehicles. Additional internal maintenance roads would be located throughout the Project site. Spacing between each row of solar arrays would depend on final panel type, orientation, and any County regulations. Internal access roads would be up to 20 feet wide and would be cleared and compacted for equipment and emergency vehicle travel and access to the solar blocks. These Project site access roads would remain in place for ongoing operations and maintenance activities after construction is completed.

No public transit, pedestrian, or bicycle facilities currently exist on U.S. Route 95, Old Parker Road or in the vicinity of the Project Site. The Project would also not develop any new public roadways, transportation facilities, or transportation-related improvements. As the Project would not develop a new roadway system or road improvements and would not bring additional employees to the Project Site, the Project would not conflict with any programs, plans, ordinances, or policies related to transportation. Impacts during Project operation would be less than significant.

# Threshold (b): Would the Project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?

Impacts due to construction activities would be temporary and would not result in any meaningful longterm or permanent change in VMT; therefore, the evaluation of VMT is focused on Project operations. VMT primarily is a metric for assessing project-related GHG emissions impacts. The analysis related to GHG emissions associated with Project-related construction and operational traffic is provided in Section 4.6, *Greenhouse Gas Emissions*, of this Draft EIR. Overall, as the Project would generate clean renewable energy that would offset GHG emissions that would have otherwise resulted from producing energy from a non-renewable source, the Project will have a net beneficial impact in offsetting GHG emissions. This Draft EIR further addresses potential significant transportation impacts of all project vehicles, including construction vehicles, related to air quality, noise, and safety.

As previously discussed under Section 4.9.3: *Regulatory Setting* – *Local* – *San Bernardino County Transportation Impact Study Guidelines,* according to the County's TISG, land use projects that meet certain screening criteria are assumed to result in a less-than-significant transportation impact under
CEQA and do not require a detailed quantitative VMT assessment. **Table 4.9-2**, *VMT Screening Criteria and Project Evaluation*, details the TISG screening criteria and whether the Project would meet the criteria.

Screening	Screening Criteria	Project Evaluation	Result
Local Community Projects	<ul> <li>The following list of projects would be screened out:</li> <li>K-12 Schools</li> <li>Local-serving retail less than 50,000 square feet</li> <li>Local parks</li> <li>Day care centers</li> <li>Local serving gas stations</li> <li>Local serving banks</li> <li>Student housing projects</li> <li>Local serving community colleges that are consistent with the assumptions noted in the RTP/SCS</li> </ul>	Project is a solar and energy storage facility and is not considered a local community project.	Does Not Meet Criteria
Trip Generation Threshold	<ul> <li>Projects generating less than 110 daily vehicle trips such as:</li> <li>11 single family housing units</li> <li>12 multi-family, condominium, or townhouse units</li> <li>10,000 square feet of office</li> <li>15,000 square feet of light industrial</li> <li>63,000 square feet of warehouse</li> <li>79,000 square feet of high cube transload and short-term storage warehouse</li> <li>12 hotel rooms</li> </ul>	Project generates less than 110 daily vehicle trips since the new trips generated by the Project is estimated at 20 ADT.	Does Meet Criteria
Transit Priority Area	Projects located within a Transit Priority Area (TPA) as determined by the most recent SCAG RTP/SCS.	The Project is not located within a TPA.	Does Not Meet Criteria
Low VMT Area	Projects located within a low VMT generating area as determined by the analyst based on the County's VMT efficient area maps online at https://www.arcgis.com/apps/webappviewer/index.html? id=779a71bc659041ad995cd48d9ef4052b	The Project is not located within a low VMT generating area.	Does Not Meet Criteria

Table 4.9-2: VMT Screening Criteria and Project Evaluation

The Project would generate 20 ADT, with approximately 40 trips required for cleaning during operations. These trips are less than the 110 ADT OPR daily vehicle trips screening threshold. As such, the Project meets one of the screening criteria identified in the TISG, and a detailed quantitative VMT assessment is not required. Therefore, the Project is considered to have a less-than-significant VMT impact.

# 4.9.7 Cumulative Impacts

Chapter 3.0, Environmental Setting, of this Draft EIR provides a list of related projects that would have the potential to be considered in a cumulative context with the Project's incremental contribution. These projects are summarized in **Table 3-1**, *Related Projects*, and shown in **Figure 3-1**, *Related Projects in the Planning Area*.

Each of the cumulative projects considered in this cumulative analysis of consistency with programs, plans, policies, and ordinances would be separately reviewed and approved by the County, including a review of consistency with applicable policies. As the Project would not be inconsistent and would not conflict with the programs, plans, policies, and ordinances that are analyzed above, the Project in combination with the cumulative projects would not create inconsistencies nor result in cumulative impacts with respect to the identified programs, plans, policies, and ordinances.

Similar to the Project, any cumulative project that would be subject to environmental review would be required to evaluate VMT on a project-by-project basis. If the cumulative project were determined to have potentially significant VMT impacts, it would be required to include appropriate mitigation measures to reduce VMT impacts to a less-than-significant level. As the Project would result in a less-than-significant impact on VMT, the Project would similarly result in a less-than-significant impact on VMT in cumulative conditions, and further analysis is not necessary.

## 4.9.8 Mitigation Measures

As detailed above, the Project would not result in significant impacts regarding transportation. Therefore, no mitigation measures are required.

# 4.9.9 Level of Significance After Mitigation

No mitigation measures are required. Impacts related to transportation would be less than significant.

# 4.10 TRIBAL CULTURAL RESOURCES

## 4.10.1 Introduction

This section addresses the Project's potential impacts to tribal cultural resources. Tribal cultural resources are generally described as sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe and are further defined in Public Resources Code (PRC) Section 21074(a)(1)(A)-(B). Information contained in this section is derived from the Cultural Resources Survey Report, dated March 2022, prepared by Chambers Group, Inc. (Appendix E). The consultation process was conducted pursuant to PRC Section 21080.3 (Appendix J).

# 4.10.2 Existing Environmental Setting

## Ethnographic Setting

According to the *Cultural Resources Assessment*, the Project Site is located within the ancestral territory of the Mohave and the Chemehuevi. The Colorado River Indian Tribe is the closest reservation to the Project, though the reservation is a modern construct of the American government and does not reflect the cultural history of the area. The population of the reservation comprises people from the Mohave, Chemehuevi, Hopi, and Navaho. While the Hopi and Navaho were forced into the reservation from further east, both the Mohave and Chemehuevi have been in this region since the tribe split off from the Southern Paiute in the area of current-day Las Vegas. Although the origins of the Chemehuevi are of the Southern Paiute, their culture has been heavily influenced by the Mohave, testifying to the close relationship between the two tribes. Relationships between the Chemehuevi and the Mohave have not always been peaceful. However, the Mohave retained the rights to travel through the newly established Chemehuevi territory.

The subsistence pattern of the Chemehuevi was agriculturally based. Maize, squash, melons, gourds, beans, cowpeas, winter wheat, and some grasses were key crops grown in the floodplain areas along the Colorado River. Hunting and gathering were also important elements of the subsistence strategy undertaken by younger adults while the elderly stayed in the village to tend to the crops.

Spiritually, the Chemehuevi were tied to their land, with spiritual power coming from particular landmarks within their territory such as mountain peaks, caves, or springs. Puha trails link the landmarks together and are also considered to have spiritual power. The manner in which ceremonies were practiced showed the tribe's close ties with the Mohave. Hunting and gathering traditions followed the traditional Paiute pattern, as did burial practices. Other ceremonial practices testify to the Mohave influence.

The Mohave were agrarian and had a reliance on fishing in the Colorado River. It should be noted that the Chemehuevi deferred fishing rights to the Mohave. The Mohave people during the protohistoric and historic times were semi-sedentary. Floodplain farming was common, and the Colorado River made up the center of their territory. The extent of their territory extended on either side of the Colorado River to the east as far as the highest crest of the Black Mountains, the Buck Mountains, and the Mohave Mountains, and to the west to the Sacramento, Dead, and Newberry Mountains. From north to south their territory ran from the Mohave Valley to south of what is now the City of Blythe.

The Mohave peoples were nationalistic, considering their home territory to be their own country. Frequently warring with the Halchidoma, the Mohave and Quechan joined forces to evict the Halchidoma from their territory. The Mohave then encouraged the Chemehuevi to move into the river area. Trade was of particular importance to the Mohave, who had extensive trail networks to take them to the Pacific Coast in the west, and with the Cahuilla in the south and east.

In the spring and summer months the Mohave lived along the banks of the Colorado River to tend to crops and to fish. Crops were planted in the spring as the river, swollen from the winter rains, receded. Seeds were planted in the newly exposed and saturated mud. While the Mohave peoples relied on their crops, their major food staple was mesquite and screwbean pods, which were gathered. In the winter they moved their settlement areas to rises above the river to avoid seasonal flooding.

The closest aspect of the Project Area is approximately 1,800 feet (0.34 mile) from the Colorado River, as presently aligned, and is situated on a mesa terrace approximately 85 feet above the river and approximately 75 feet above the adjacent sandy river margin. It is not expected that riverine farmlands at the higher mesa elevations will be identified. Similarly, the closest aspect of Vidal Wash within the Project Area is approximately 6,200 feet (1.17 miles) from the current river course and is approximately 85 feet higher in elevation. However, this, and an unnamed wash to the north are not noted for supporting mesquite and screwbean habitat, nor are the adjacent lands. Therefore, activity areas associated with these habitats are not expected within the Project Area.

## **Existing Tribal Cultural Resources**

A request for a Sacred Lands File (SLF) Search was submitted to the California Native American Heritage Commission (NAHC) on July 9, 2020. The results returned on July 10, 2020, and were positive, indicating that sacred areas are known within or around the Project Area that may be impacted by Project development.

The County began the AB 52 Native American Consultation on August 30, 2021. The County submitted a Notice of Opportunity to consult to the following tribes that had previously requested notification on prior County projects and based on County and NAHC records:

- Twenty-Nine Palms Band of Mission Indians
- Colorado River Indian Tribes (CRIT)
- Morongo Band of Mission Indians (MBMI)
- Soboba Band of Luiseno Indians

The County received a response from CRIT via e-mail on January 24, 2022 indicating CRIT had an interest in the Project at the time. CRIT met with a County representative on February 14, 2022 at a Project Site visit where CRIT's Tribal Historic Preservation Officer (THPO) confirmed that the Project Site is a highly sensitive cultural resource area. As noted in CRIT's response to the Notice of Preparation (NOP) issued for the Project, CRIT met with the Western Area Power Administration (WAPA) (in-person) and the County (virtual) to discuss Section 106. Subsequent to the site visit, the County provided information to CRIT sample conditions of approval they may utilize. Prior to CRIT's Tribal Council Meeting on April 25, 2022, County Staff requested to know they type of topics to be discussed to ensure adequate and timely information was provided. Based upon the topics identified by CRIT, the County provided written responses. During the Tribal Council Meeting, CRIT members informed the County of their concerns regarding the Project's potential impacts and discussed the possibility for alternative sites, cultural resources mitigation methods, treatment plans for cultural resources, tribal monitoring, and the County's timeline for CEQA review. CRIT did not provide written materials or maps subsequent to the two meetings.

The County received a response from MBMI in response to the NOP on June 1, 2022 wherein the MBMI noted that the Project is located near ancestral territory and traditional use area of the Cahuilla and Serrano people of the MBMI. The County provided a copy of the geotechnical report to MBMI for their review.

While CRIT and MBMI did not identify any known tribal cultural resources (as defined in PRC Section 21074) within the Project Site, mitigation measures to be implemented during Project construction are included below and in Section 4.4, *Cultural Resources*.

## 4.10.3 Regulatory Setting

## Federal

## Native American Graves Protection and Repatriation Act of 1990

The Native American Graves Protection and Repatriation Act of 1990 sets provisions for the intentional removal and inadvertent discovery of human remains and other cultural items from federal and tribal lands. It clarifies the ownership of human remains and sets forth a process for repatriation of human remains, associated funerary objects, and sacred religious objects to the Native American groups claiming to be lineal descendants or culturally affiliated with the remains or objects. It requires any federally funded institution housing Native American remains or artifacts to compile an inventory of all cultural items within the museum or with its agency and to provide a summary to any Native American tribe claiming affiliation.

#### National Park Service – National Register Bulletin 38

National Park Service has prepared guidelines to assist in the documentation of Traditional Cultural Properties (TCPs) by public entities. National Register Bulletin 38 is intended to be an aid in determining whether properties have traditional cultural significance and if they are eligible for inclusion in the National Register of Historic Places (National Register). It is also intended to assist federal agencies, State Historic Preservation Officers (SHPOs), Certified Local Governments, tribes, and other historic preservation practitioners who need to evaluate such properties when considering their eligibility for the National Register as part of the review process prescribed by the Advisory Council on Historic Preservation (ACHP).

TCPs are a broad group of places that can include:

- location associated with the traditional beliefs of a Native American group about its origins, its cultural history, or the nature of the world;
- rural community whose organization, buildings and structures, or patterns of land use reflect the cultural traditions valued by its long-term residents;
- an urban neighborhood that is the traditional home of a particular cultural group, and that reflects its beliefs and practices;

- location where Native American religious practitioners have historically gone, and are known or thought to go today, to perform ceremonial activities in accordance with traditional cultural rules of practice; and
- location where a community has traditionally carried out economic, artistic, or other cultural practices important in maintaining its historic identity.

## State

## Native American Heritage Commission (NAHC)

PRC Section 5097.91 established the NAHC, the duties of which include inventorying places of religious or social significance to Native Americans and identifying known graves and cemeteries of Native Americans on private lands. PRC Section 5097.98 specifies a protocol to be followed when the NAHC receives notification of a discovery of Native American human remains from a county coroner.

## California Public Records Act

Sections 6254(r) and 6254.10 of the California Public Records Act (Government Code Section 6250 et seq.) were enacted to protect archaeological sites from unauthorized excavation, looting, or vandalism. Section 6254(r) explicitly authorizes public agencies to withhold information from the public relating to "Native American graves, cemeteries, and sacred places and records of Native American places, features, and objects...maintained by, ..., the Native American Heritage Commission...." Section 6254.10 specifically exempts from disclosure requests for "records that relate to archaeological site information and reports maintained by, or in the possession of, the Department of Parks and Recreation, the State Historical Resources Commission, the State Lands Commission, the [NAHC], another state agency, or a local agency, including the records that the agency obtains through a consultation process between a California Native American tribe and a state or local agency."

## Assembly Bill 52

AB 52 was approved by California State Governor Edmund Gerry "Jerry" Brown, Jr. on September 25, 2014. The act amended California PRC Section 5097.94, and added PRC Sections 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2, and 21084.3. AB 52 applies specifically to projects for which a NOP or a Notice of Intent to Adopt a Negative Declaration or Mitigated Negative Declaration (MND) will be filed on or after July 1, 2015. The primary intent of AB 52 was to include California Native American Tribes early in the environmental review process and to establish a new category of resources related to Native Americans that require consideration under CEQA, known as tribal cultural resources. PRC Section 21074(a)(1) and (2) defines tribal cultural resources as "sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Register or included in a local register of historical resources, or a resource that is determined to be a tribal cultural resource by a lead agency, in its discretion and supported by substantial evidence. On July 30, 2016, the California Natural Resources Agency adopted the final text for tribal cultural resources update to Appendix G of the CEQA Guidelines, which was approved by the Office of Administrative Law on September 27, 2016.

PRC Section 21080.3.1 requires that within 14 days of a lead agency determining that an application for a project is complete, or a decision by a public agency to undertake a project, the lead agency provide formal notification to the designated contact, or a tribal representative, of California Native American Tribes that

are traditionally and culturally affiliated with the geographic area of the project (as defined in PRC Section 21073) and who have requested in writing to be informed by the lead agency (PRC Section 21080.3.1(b)). Tribes interested in consultation must respond in writing within 30 days from receipt of the lead agency's formal notification and the lead agency must begin consultation within 30 days of receiving the tribe's request for consultation (PRC Sections 21080.3.1(d) and 21080.3.1(e)). PRC Section 21080.3.2(a) identifies the following as potential consultation discussion topics: the type of environmental review necessary; the significance of tribal cultural resources; the significance of the project's impacts on the tribal cultural resources; project alternatives or appropriate measures for preservation; and mitigation measures. Consultation is considered concluded when either: (1) the parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or (2) a party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached (PRC Section 21080.3.2(b)).

If a California Native American tribe has requested consultation pursuant to Section 21080.3.1 and has failed to provide comments to the lead agency, or otherwise failed to engage in the consultation process, or if the lead agency has complied with Section 21080.3.1(d) and the California Native American tribe has failed to request consultation within 30 days, the lead agency may certify an EIR or adopt an MND (PRC Section 21082.3(d)(2) and (3)).

PRC Section 21082.3(c)(1) states that any information, including, but not limited to, the location, description, and use of the tribal cultural resources, that is submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public without the prior consent of the tribe that provided the information. If the lead agency publishes any information submitted by a California Native American tribe during the consultation or environmental review process, that information shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public.

## Native American Historic Resource Protection Act

State law addresses the disposition of Native American burials in archaeological sites and protects such remains from disturbance, vandalism, or inadvertent destruction, establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project, and establishes the NAHC to resolve disputes regarding the disposition of such remains. In addition, the Native American Historic Resource Protection Act (PRC Section 5097 et seq.) makes it a misdemeanor punishable by up to one year in jail to deface or destroy a Native American historic or cultural site that is listed or may be eligible for listing in the California Register of Historic Resources (CRHR).

## Public Resources Code Sections 5097.98(b) and (e)

PRC Sections 5097.98(b) and (e) require a landowner on whose property Native American human remains are found to limit further development activity in the vicinity until he/she confers with the NAHC-identified Most Likely Descendants (MLDs) to consider treatment options. Once the MLD has been granted access to the site by the landowner and inspected the discovery, the MLD then has 48 hours to provide recommendations to the landowner for the treatment of the human remains and any associated grave goods. In the absence of MLDs or of a treatment acceptable to all parties, the landowner is required to reinter the remains elsewhere on the property in a location not subject to further disturbance.

## California Health and Safety Code, Section 7050.5, 7501, and 7054

California Health and Safety Code (HSC) Sections 7050.5, 7051, and 7054 collectively address the illegality of interference with human burial remains as well as the disposition of Native American burials in archaeological sites. The law protects such remains from disturbance, vandalism, or inadvertent destruction and establishes procedures to be implemented if Native American skeletal remains are discovered during construction of a project, including the treatment of remains prior to, during, and after evaluation, and reburial procedures. California HSC Section 7050.5 requires that in the event human remains are discovered, the County Coroner be contacted to determine the nature of the remains. In the event the remains are determined to be Native American in origin, the Coroner is required to contact the NAHC within 24 hours to relinquish jurisdiction.

## Local

## San Bernardino County Countywide Plan/Policy Plan

The County adopted the Countywide Plan/Policy Plan (Policy Plan) in October 2020. The Policy Plan provides an update of the County's General Plan addressing physical, social and economic issues facing the unincorporated portions of the County. The Policy Plan also provides an expansion of the County's General Plan to address supportive service for adults and children, healthcare service, public safety, and other regional county services provided to both incorporated and unincorporated areas.

Relevant policies from the Cultural Resources Element are as follows:

- **Goal CR-1** Tribal cultural resources that are preserved and celebrated out of respect for Native American beliefs and traditions.
- **Policy CR-1.1 Tribal notification and coordination.** We notify and coordinate with tribal representatives in accordance with state and federal laws to strengthen our working relationship with area tribes, avoid inadvertent discoveries of Native American archaeological sites and burials, assist with the treatment and disposition of inadvertent discoveries, and explore options of avoidance of cultural resources early in the planning process.
- **Policy CR-1.2 Tribal planning.** We will collaborate with local tribes on countywide planning efforts and, as permitted or required, planning efforts initiated by local tribes.
- **Policy CR-1.3** Mitigation and avoidance. We consult with local tribes to establish appropriate project-specific mitigation measures and resource-specific treatment of potential cultural resources. We require project applicants to design projects to avoid known tribal cultural resources, whenever possible. If avoidance is not possible, we require appropriate mitigation to minimize project impacts on tribal cultural resources.
- **Policy CR-1.4 Resource monitoring.** We encourage coordination with and active participation by local tribes as monitors in surveys, testing, excavation, and grading phases of development projects with potential impacts on tribal resources.

# 4.10.4 Thresholds of Significance

In accordance with Appendix G of the CEQA Guidelines, a project would have a significant impact related to tribal cultural resources if it would cause a substantial adverse change in the significance of a tribal cultural resource, defined in PRC Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

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

## 4.10.5 Methodology

Chambers Group submitted a request for a search of the SLF housed at the California NAHC on July 9, 2020. The results of the search were returned on July 10, 2020. AB 52 consultation was initiated by the County and is described above.

## 4.10.6 **Project Impact Analysis**

- Threshold (a): Would the Project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place or object with cultural value to a California Native American tribe, and that is:
  - (i) for listing in the California Register of Historical Resources, or in a local register of historical resources as define in Public Resources Code Section 5020.1(k), or
  - (ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth is subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American Tribe.

Results from the NAHC SLF search were positive, indicating that sacred areas are known within or around the Project Area that may be impacted by Project development. As discussed in the Cultural Resources Report (Appendix E) and in Section 4.4, Cultural Resources, of this Draft EIR, the cultural resources (historic-period resources, prehistoric resources, and prehistoric isolates) identified are not recommended "historical resources" or "archaeological resources" under CEQA. As a result of the County's consultation efforts and other archival research, no known tribal cultural resources or tribal

cultural places have been identified within the Project Site or immediate vicinity. Therefore, the Project would result in no impacts to tribal cultural resources.

Nonetheless, the potential exists that there may be undiscovered tribal cultural resources that could be unearthed during ground-disturbing activities during Project construction. Therefore, as there is potential for ground-disturbing activities to encounter buried or unknown tribal cultural resources, impacts would be considered potentially significant. The Project would be required to implement **Mitigation Measures TCR-1 and TCR-2** to reduce potential impacts to tribal cultural resources to a less-than-significant level during Project construction.

## 4.10.7 Cumulative Impacts

Chapter 3.0, Environmental Setting, of this Draft EIR provides a list of related projects that would have the potential to be considered in a cumulative context with the Project's incremental contribution. These projects are summarized in **Table 3-2**, *Related Projects*, and shown in **Figure 3-1**, *Related Projects in the Planning Area*.

Ongoing development and growth in the broader area and in the Project vicinity may result in a cumulatively significant impact to tribal cultural resources due to the continuing disturbance of undeveloped areas, which could potentially contain significant, buried archaeological or tribal cultural resources, or transform an area related to tribal cultural history.

Because there is always a potential to encounter undiscovered tribal cultural resources during construction activities, no matter the location or sensitivity of a particular site, **Mitigation Measures TCR-1** and **TCR-2** have been included and would serve to protect, preserve, and maintain the integrity and significance of cultural or tribal cultural resources in the event of the unanticipated discovery of a resource.

The individual, Project-level impacts were found to be less than significant with implementation of **Mitigation Measures TCR-1** and **TCR-2**, and the Project would be required by law to comply with all applicable federal, State, and local requirements related to historical, archaeological and tribal cultural resources. Other related cumulative projects would similarly be required to comply with all such requirements and regulations, to be consistent with the provisions set forth by CEQA, and to implement all feasible mitigation measures should a significant project-related or cumulative impact be identified. Impacts would be less than significant in this regard and additional mitigation is not required.

## 4.10.8 Mitigation Measures

In order to minimize potential impacts to tribal cultural resources, the following mitigation measures would be implemented:

**TCR-1**A Native American tribal monitor from an applicable Indian Tribe shall be contacted, as<br/>detailed in Mitigation Measure CUL-1, if any pre-contact and/or historic-era cultural<br/>resources are discovered during Project implementation and be provided information<br/>regarding the nature of the find so as to provide Tribal input with regards to significance<br/>and treatment. Should the discovery be deemed significant, as defined by the California<br/>Environmental Quality Act (CEQA), a Monitoring and Treatment Plan, as detailed in<br/>Mitigation Measure CUL-2, shall be created by a Qualified Archaeologist, in coordination<br/>with an applicable Indian Tribe and the County Planning Division, and all subsequent finds

shall be subject to this Plan. This Plan shall allow for a monitor to represent the applicable Indian Tribe for the remainder of the Project, should the applicable Indian Tribe elect to place a monitor on-site.

If a pre-contact cultural resource is discovered during Project implementation, the following actions are required:

- (a) Ground-disturbing activities shall be suspended 60 feet around the resource(s), and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed;
- (b) The Applicant shall develop a research design that shall include a plan to evaluate the resource for significance under CEQA criteria, and the County and applicable Indian Tribe shall review to indicate concurrence. Representatives from the applicable Indian Tribe, the Applicant, and the County shall confer regarding the research design, as well as any testing efforts needed to delineate the resource boundary. Following the completion of evaluation efforts, all parties shall confer regarding the resource's archaeological significance, its potential as a Tribal Cultural Resource (TCR), and avoidance (or other appropriate treatment) of the discovered resource.

Should any significant resource and/or TCR not be a candidate for avoidance or preservation in place, and the removal of the resource(s) is necessary to mitigate impacts, the research design shall include a comprehensive discussion of sampling strategies, resource processing, analysis, and reporting protocols/obligations. Removal of any cultural resource(s) shall be conducted with the presence of a Tribal monitor representing the Tribe unless otherwise decided by the applicable Indian Tribe. All plans for analysis shall be reviewed and approved by the Applicant and the applicable Indian Tribe prior to implementation, and all removed material shall be temporarily curated on-site. The applicable Indian Tribe shall indicate if it is the preference of the applicable Indian Tribe that removed cultural material be reburied as close to the original find location as possible. However, should reburial within/near the original find location during Project implementation not be feasible, then a reburial location for future reburial shall be decided upon by the applicable Indian Tribe, the landowner, and the County, and all finds shall be reburied within this location. Additionally, in this case, reburial shall not occur until all ground-disturbing activities associated with the Project have been completed, all monitoring has ceased, all cataloging and basic recordation of cultural resources have been completed, and a final monitoring report has been issued to the County, CHRIS, and the applicable Indian Tribe. All reburials are subject to a reburial agreement that shall be developed between the landowner and the applicable Indian Tribe outlining the determined reburial process/location and shall include measures and provisions to protect the reburial area from any future impacts (vis a vis project plans, conservation/preservation easements, etc.).

Should it occur that avoidance, preservation in place, and on-site reburial are not an option for treatment, the landowner shall relinquish all ownership and rights to this material and confer with the applicable Indian Tribe to identify an American Association of Museums (AAM)-accredited facility within the County that can accession the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an

appropriately qualified repository shall be developed between the landowner and museum that legally and physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the Applicant's obligation to pay for those fees.

All draft records/reports containing the significance and treatment findings and data recovery results shall be prepared by the archaeologist and submitted to the County and the applicable Indian Tribe for their review and comment. After approval from all parties, the final reports and site/isolate records are to be submitted to the local CHRIS Information Center, the County, and the applicable Indian Tribe.

**TCR-2** Any and all archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the Applicant and County for dissemination to the applicable Indian Tribe. The County and/or Applicant shall, in good faith, consult with the applicable Indian Tribe throughout the life of the Project.

## 4.10.9 Level of Significance After Mitigation

With the implementation of **Mitigation Measures TCR-1** and **TCR-2**, the Project's impacts on tribal cultural resources would be reduced to less than significant.

# **CHAPTER 5 – ALTERNATIVES ANALYSIS**

## 5.1 INTRODUCTION AND OVERVIEW

CEQA requires that an EIR describe a range of reasonable alternatives to the Project, or to the location of the Proposed Project, which could feasibly avoid or lessen any significant environmental impacts while substantially attaining the basic objectives of the Project. An EIR should also evaluate the comparative merits of the alternatives. This chapter describes potential alternatives to the Project that were considered, identifies alternatives that were eliminated from further consideration and reasons for dismissal, and analyzes available alternatives in comparison to the potential environmental impacts associated with the Project.

Key provisions of CEQA Guidelines Section 15126.6 pertaining to the alternatives analysis are summarized below:

- The discussion of alternatives shall focus on alternatives to the Proposed Project or its location that are capable of avoiding or substantially lessening any significant effects of the Proposed Project, even if these alternatives would impede to some degree the attainment of the Proposed Project objectives or would be more costly.
- The No Project Alternative shall be evaluated along with its impact. The No Project analysis shall discuss the existing conditions at the time the Notice of Preparation is published. Additionally, the analysis shall discuss what would be reasonably expected to occur in the foreseeable future if the Proposed Project were not approved, based on current plans and consistent with available infrastructure and community services.
- The range of alternatives required in an EIR is governed by a "rule of reason". Therefore, the EIR must evaluate only those alternatives necessary to permit a reasoned choice. Alternatives shall be limited to ones that would avoid or substantially lessen any of the significant effects of the Proposed Project.
- For alternative locations, only locations that would avoid or substantially lessen any of the significant effects of the Proposed Project need to be considered for inclusion in the EIR.
- An EIR need not consider an alternative whose effects cannot be reasonably ascertained and whose implementation is remote and speculative.

The range of feasible alternatives is selected and discussed in a manner to foster meaningful public participation and informed decision-making. Among the factors that may be taken into account when addressing the feasibility of alternatives are environmental impacts, site suitability, economic viability, availability of infrastructure, general plan contingency, regulatory limitation, jurisdictional boundaries, and whether the proponent could reasonably acquire, control, or otherwise have access to the alternative site. An EIR need not consider an alternative whose effects cannot be reasonably identified, whose implementation is remote or speculative, and that would not achieve the basic Project Objectives.

# 5.2 **PROJECT OBJECTIVES**

The Project has the following objectives:

• Utilize property within the County to site photovoltaic (PV) solar power-generating facilities and energy storage near existing utility infrastructure.

- Support California's efforts to reduce greenhouse gas (GHG) emissions consistent with the timeline established by the California Global Warming Solutions Act under California Assembly Bill 32, as amended by Senate Bill 32, which requires that Statewide GHG emissions are reduced to at least 40 percent below the Statewide GHG emissions limit by 2030.
- Support California's aggressive Renewables Portfolio Standard (RPS) Program consistent with the timeline established by Senate Bill 100, which requires that by December 31, 2030, 60 percent of all electricity sold in the State shall be generated from renewable energy sources.
- Develop an economically feasible and commercially financeable power-generating facility and energy storage system.
- Provide solar-generated electricity to the California Independent System Operator (CAISO) grid and Western Area Power Administration (WAPA).
- Promote the County's role as the state's leading producer of renewable energy.
- Provide green jobs to the County and the state of California.
- Site and design the Project in an environmentally responsible manner consistent with current County guidelines.

# 5.3 ALTERNATIVES CONSIDERED BUT REJECTED

Several alternatives could be considered for the Project which address the Project size or development of a similar project elsewhere in the Project area. A range of alternatives that are "reasonable" for analysis have been defined by the Lead Agency and are discussed below in Section 5.4, Alternatives Analyzed. The following section describes alternatives or alternative concepts that were given consideration, but rejected from further analysis in the EIR due to their infeasibility.

Pursuant to CEQA Guidelines Section 15126.6(c), alternatives may be eliminated from detailed consideration in an EIR if they fail to meet most of the Project objectives, are infeasible, or do not avoid or substantially reduce any significant environmental effects. Alternatives that are remote or speculative, or the effects of which cannot be reasonably predicted, also do not need to be considered (CEQA Guidelines Section 15126(f)(2)). Though the Project would not result in any significant and unavoidable impacts, the County considered several alternatives that could reduce potential impacts associated with Project implementation. Per CEQA, the lead agency may make an initial determination as to which alternatives are feasible and warrant further consideration, and which are infeasible. The following alternatives were initially considered but were eliminated from further consideration in this EIR because they do not meet any Project objectives or were infeasible:

- Distributed Generation Alternative
- Fossil Fuel Power Plant Alternative

# **5.3.1 Distributed Generation Alternative**

Distributed generation refers to the installation of small-scale solar energy facilities at individual locations at or near the point of consumption (e.g., use of solar PV panels on a business or home to generate electricity for on-site consumption). The generating capacity of a distributed generation source is significantly smaller than that of centrally located utility-scale energy generation sources and can range from generation at a single residence to larger installations for commercial or multi-unit housing

applications. Distributed generation systems typically generate less than 10 MW. The distributed generation alternative would require at least 16 separate renewable energy projects at 10 MW each to provide a level of energy generation comparable to the Project. Finding 16 or more separate sites for development of solar power is not feasible due to the time, expense, and site control requirements associated with selecting such a large number of locations.

In order to be a viable alternative to the Project, the applicant would need to own or control a sufficient amount of land to accommodate 160 MW of capacity. The applicant, however, does not currently own or control any other such sites or land in San Bernardino County. Therefore, this alternative would not meet the Project objectives, it was eliminated from further consideration in this EIR.

# **5.3.2 Fossil Fuel Power Plant Alternative**

This alternative would involve the development of a natural gas-fired power plant (equivalent to 160 MW) on the Project Site. Fossil fuel-powered plants are designed on a large scale for continuous operation. However, byproducts of industrial power plant operation need to be considered in both design and operation. When waste heat that results from the finite efficiency of the power cycle is not recovered and used as steam or hot water, it must be released to the atmosphere, and often uses a cooling tower as a cooling medium (especially for condensing steam). The flue gas from combustion of the fossil fuels is discharged to the air and contains carbon dioxide and water vapor as well as other substances, such as nitrogen, nitrogen oxides, and sulfur oxides. Furthermore, unlike the Project, fossil fuel-powered plants are major emitters of GHG emissions. In addition, industrial power plants generally involve the construction of large structures, such as cooling towers and gas stacks, which would require the use of hazardous materials, including: fuels; air, water, and wastewater treatment chemicals; and equipment and facility maintenance chemicals. Gas fired power plants use water for the cooling towers to control the temperature of the machinery in the plant. Water is also lost to evaporation as part of this process. Accordingly, the development of an industrial power plant would typically result in greater adverse impacts related to: (1) aesthetics and the local visual setting of the Project area; (2) air quality and GHG emissions; and (3) water demand.

As noted above, some of the objectives for the Project are to develop a solar project that would help meet the increasing demand for clean, renewable electrical power as well as help California meet its statutory and regulatory goals of generating more renewable power with minimum potential for environmental effects. Alternatives may be eliminated from detailed consideration in an EIR if they fail to meet most of the Project objectives, are infeasible, or do not avoid or substantially reduce significant environmental effects. Therefore, this alternative was eliminated from further consideration because it would:

- Result in overall additional/greater impacts than the Project including aesthetics, air quality, GHG emissions, hazardous materials, noise, and water demand.
- Not contribute to the statewide renewable energy and GHG reduction objectives as this alternative would use non-renewable energy to produce electricity.

# 5.4 ALTERNATIVES ANALYZED

In accordance with CEQA Guidelines Section 15126.6(d), each alternative is evaluated in sufficient detail to determine whether the overall environmental impacts would be less, similar, or greater than the corresponding impacts of the Project. Furthermore, each alternative is evaluated to determine whether the Project objectives would be substantially attained by the alternative.

Alternatives analyzed in this section include:

- Alternative 1 No Project Alternative. Under the No Project Alternative, CORE would not construct a PV and BESS facility and the Project's objectives would not be realized.
- Alternative 2 Reduced Acreage Alternative. Under the Reduced Acreage Alternative, the Project Site would be reduced by 177 acres, and the Project's renewable energy generation capacity would be reduced by approximately 25 percent due to the installation of fewer PV panels.
- Alternative 3 Offsite Alternative. Under the Offsite Alternative, the Offsite Alternative would be redesigned and relocated to approximately 1,100 acres of Bureau of Land Management (BLM)-administered land outside of the City of Blythe, which is designated as a Development Focus Area (DFA) for renewable energy in the Desert Renewable Energy Conservation Plan (DRECP).

## 5.4.1 Alternative 1 – No Project Alternative

CEQA Guidelines Section 15126.6(e) requires analysis of a No Project Alternative that (1) discusses existing site conditions at the time the Notice of Preparation (NOP) is prepared or the Draft EIR is commenced and (2) analyzes what is reasonably expected to occur in the foreseeable future based on current plans if the Project were not approved. Potential effects for the No Project Alternative were compared to the environmental topics that were analyzed as a part of this Draft EIR.

## Aesthetics

Implementation of the No Project Alternative would not impact scenic resources, as the Project Site would remain in its current condition. Views of vacant and agricultural land, nearby geothermal facilities, and residences would remain. No new sources of light and glare would be constructed. The No Project Alternative would have no aesthetic impacts. The No Project Alternative would avoid the Project's less than significant impacts on visual quality. The No Project Alternative would have no impact on scenic resource or visual quality.

## Air Quality

The No Project Alternative would not require vehicle or equipment use. Criteria air pollutant emissions would not increase and the risk to sensitive receptors would remain the same as baseline conditions. Ambient air quality of the Project Site would not be affected by the No Project Alternative. The No Project Alternative would avoid the proposed Project's potentially significant impacts on air quality resulting from construction of the proposed solar and energy storage facility.

## **Biological Resources**

The No Project Alternative would not require ground-disturbing activities and would not affect specialstatus plant and wildlife species that may occur within the Project Site. No impacts on biological resources would occur, including no impacts to sensitive habitats or movement of species. The No Project Alternative would avoid the Project's potentially significant impacts on biological resources including special-status species and habitats that would result from construction of the proposed solar and energy storage facility.

#### **Cultural Resources**

The No Project Alternative would not involve ground-disturbing activities. The No Project Alternative would not impact historical or archaeological resources or disturb human remains. The No Project Alternative would avoid the Project's potentially significant impacts on historical and archaeological resources resulting from potential damage of buried historical or archaeological resources during construction of the solar and energy storage facility.

#### **Geology and Soils**

The No Project Alternative would not involve ground-disturbing activities and soil erosion and topsoil loss would continue at the same rate as baseline conditions in open space areas. Additionally, the No Project Alternative would not impact paleontological resources, and would avoid the Project's potentially significant impacts on paleontological resources resulting from potential damage of buried paleontological resources during construction of the solar and energy storage facility.

#### Greenhouse Gas Emissions

The No Project Alternative would not require construction of a new solar energy and storage facility. The existing greenhouse gas emissions from agricultural activities and existing agricultural use of the Project Site would continue. The No Project Alternative would not implement a renewable energy Project and would not help the State of California meet its for renewable energy generation targets to reduce GHG emissions. The No Project Alternative would avoid the Project's less than significant impacts from generation of GHG emissions during construction because no development would occur in the Project Site.

#### Hazards and Hazardous Materials

The No Project Alternative would not involve transportation or use of hazardous materials for construction of a solar and energy storage facility and would not introduce large batteries containing flammable materials. The risk of wildfire would not increase because the existing vegetation and use of the Project Site would remain. There would be no impacts related the hazards and hazardous materials. The No Project Alternative would not interfere with any emergency response or evacuation plans. The No Project Alternative would avoid the Project's less than significant impacts on hazards and hazardous materials because no development would occur in the Project Site.

#### Noise

No construction or operation of a solar and energy storage facility would occur under the No Project Alternative, and ambient noise levels on the Project Site would remain the same as existing conditions. The No Project Alternative would not result in excessive generation of groundborne noise or vibration levels. The No Project Alternative would not conflict with local noise standards or result in changes to the ambient noise levels either temporarily, periodically, or permanently. The No Project Alternative would avoid the Project's less than significant impacts on noise because no development would occur in the Project Site.

#### Transportation

No construction would occur with the implementation of the No Project Alternative. The No Project Alternative would not introduce new traffic to the area. Any existing agricultural use and vehicle traffic would remain on the Project Site. No new access roads, solar facilities, or gen-tie lines would be constructed, and the existing transportation and traffic conditions, including air traffic patterns, in the area would remain. The No Project Alternative would avoid the Project's less than significant impacts on transportation, because no development would occur in the Project Site.

## Tribal Cultural Resources

The No Project Alternative would not involve ground-disturbing activities. The No Project Alternative would not impact tribal cultural resources. The No Project Alternative would avoid the Project's potentially significant impacts on tribal cultural resources resulting from potential damage of buried tribal cultural resources during construction of the solar and energy storage facility.

## 5.4.2 Alternative 2 – Reduced Acreage Alternative

The Reduced Acreage Alternative would reduce the Project Site by approximately 177 acres, or approximately 18 percent. The Reduced Acreage Alternative footprint was established by first excluding all jurisdictional waters (i.e., Waters of the State and Waters of the U.S.), expanding the boundaries to cover additional nearby cultural resources, and finally excluding any areas rendered un-developable (e.g., islanded, insufficient space, etc.). Construction of Project facilities would be restricted from the "Excluded Areas" shown in **Figure 5-1**, *Reduced Acreage Alternative*.

Under the Reduced Acreage Alternative, Project energy generation production would be diminished by approximately 25 percent, or 40 MW-AC, because a reduced number of PV panels would be installed due to reduced developable area and sub-optimal layout and siting options. Project renewable energy output would be reduced from 160 MW-AC to approximately 120 MW-AC (25 percent reduction). The proposed substation would also be relocated and access and maintenance road layout and placement would be revised. The proposed BESS system can be charged from both the proposed PV panels and the electrical grid. Therefore, no reduction in BESS capacity is anticipated.



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## Aesthetics

The Reduced Acreage Alternative would result in similar impacts to those of the Project. Although the Project Site would be reduced by 177 acres and fewer PV panels would be installed when compared to the Project, the reduction would occur mostly within the interior of the proposed Project Site. Implementation of the Reduced Acreage Alternative would result in less-than-significant impacts and would be similar those of the Project.

## Air Quality

The Reduced Acreage Alternative would result in reduced impacts compared to those of the Project. Because the Reduced Acreage Alternative would require less ground disturbance and a shorter construction schedule, there would be less fugitive dust generated by Project construction. The Reduced Acreage Alternative would not result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is in non-attainment under an applicable federal or State ambient air quality standard. Furthermore, and similar to the Project, the Reduced Acreage Alternative would not conflict with any applicable air quality plans, local land use plans, or Mojave Desert Air Quality Management District (MDAQMD) Rules and Regulations, and would not result in an increase in the frequency or severity of existing air quality violations. As discussed in Section 4.2 Threshold (b), implementation of the Project (both construction and operation) would not result in criteria pollutants emissions that would exceed the MDAQMD annual thresholds and would, therefore, result in less than significant impacts. The Reduced Acreage Alternative would result in a reduced acreage by 177 acres, which would result in reduced emissions during construction and operation. However, similar to the Project, the Reduced Acreage Alternative would result in potential risk associated with Valley Fever due to ground disturbing activities associated with construction. Therefore, the Reduced Acreage Alternative would also be required to implement Mitigation Measure AQ-1 to ensure worker safety through education and ensuring implementation of required OSHA safety measures. Overall, the Reduced Acreage Alternative would have reduced air quality impacts compared to the Project. While this alternative would generate fewer air quality emissions during construction and operation, it would not achieve the long-term benefits of the Project of generating as much renewable solar energy as the Project would generate.

## **Biological Resources**

Implementation of the Reduced Acreage Alternative would result in reduced impacts to biological resources when compared to the Project-related impacts. The Reduced Acreage Alternative would avoid all on-site drainages determined to be jurisdictional waters of the State, resulting in a 24.66-acre reduction in impacts in the Project footprint when compared to the Project. This footprint reduction would avoid 14.45 acres that would be temporarily impacted and 10.21 acres that would be permanently impacted by construction activities associated with the Project. Overall, the Reduced Acreage Alternative would result in reduced impacts to biological resources when compared to the Project. Impacts would remain less than significant, but would still require implementation of **Mitigation Measures BIO-1** through **BIO-11** to reduce impacts to less than significant.

## **Cultural Resources**

The Reduced Acreage Alternative would result in reduced impacts to cultural resources as compared to those of the Project. The Reduced Acreage Alternative would result in less impacts by avoiding approximately 32 of the 53 identified cultural resources, with an additional two resources being partially avoided (see **Table 5-1**, *Summary of Cultural Resources*). Under this Alternative, 18 identified cultural

resources would be impacted, 16 of which would be fully impacted, and the two partially impacted resources described above. The three resources identified as belonging to federal government entities would be avoided, similar to the Project, as a result of the nature of classification and associated federal protection.

Although the footprint would be reduced and fewer resources potentially impacted, the Reduced Acreage Alternative would not be able to avoid all known resources and would result in similar potentially significant impacts on unknown resources when compared to the Project. The Reduced Acreage Alternative would be required to implement **Mitigation Measures CUL-1** and **CUL-2** to reduce impacts to less than significant. The Reduced Acreage Alternative would result in reduced impacts compared to the Project.

Resources Avoided		<b>Resources Not Avoided</b>	<b>Government Property</b>			
PF-005	VS-031	PF-004	CA-SBR-016198			
PF-008	VS-033	PF-009	VS-014			
PF-013	VS-034	PF-011	VS-032			
PF-016	VS-035	PF-012	-			
PF-017	VS-036	PF-015	-			
VS-001	VS-037	VS-002	-			
VS-008	VS-038	VS-004	-			
VS-010	VS-039	VS-006	-			
VS-011	VS-040	VS-012	-			
VS-016	VS-041	VS-013	-			
VS-017	VS-042	VS-015	-			
VS-019*	VS-043	VS-019*	-			
VS-021	VS-044	VS-020	-			
VS-026	VS-049	VS-023	-			
VS-027	VS-050	VS-025	-			
VS-028	VS-051*	VS-048	-			
VS-029	-	VS-051*	-			
VS-030	-	VS-052	_			
*Resources partially excluded.						

#### Table 5-1: Summary of Cultural Resources

#### **Geology and Soils**

The Reduced Acreage Alternative would result in similar geology and soils impacts to those of the Project. Similar to the Project, the Reduced Acreage Alternative would have a potentially significant impact on soil erosion and the loss of topsoil. The Reduced Acreage Alternative would be required to implement **Mitigation Measure GEO-1** to reduce erosion impacts to less than significant.

Since the Reduced Acreage Alternative would result in less ground disturbance during construction when compared to the Project, the potential to encounter paleontological resources would be slightly reduced. However, the Reduced Acreage Alternative would still be required to implement **Mitigation Measures GEO-2** and **GEO-3** to reduce impacts on paleontological resources to less than significant. Overall, the

Reduced Acreage Alternative would result in similar impacts to geology and soils when compared to the Project.

## **Greenhouse Gas Emissions**

The Reduced Acreage Alternative would have reduced GHG emissions when compared to the Project due to the reduced Project footprint. Similar to the Project, the Reduced Acreage Alternative would have less than significant impacts on direct or indirect GHG emissions and plans, policies, and regulations related to GHG emissions. Overall, the Reduced Acreage Alternative would result in less GHG impacts when compared to the Project. However, the Reduced Acreage Alternative would produce less renewable energy. Impacts would be reduced compared to the Project. While this alternative would generate fewer GHG emissions during construction and operation, it would not achieve the long-term benefits of the Project of generating as much renewable solar energy as the Project would generate.

## Hazards and Hazardous Materials

The Reduced Acreage Alternative would result in similar impacts to those of the Project. The Reduced Acreage Alternative would have a less than significant impact on hazards and would be required to be in compliance with the same listed regulations that are applicable to the Project. The Reduced Acreage Alternative's impacts would result in similar hazards and hazardous materials impacts when compared to the Project.

#### Noise

The Reduced Acreage Alternative would result in reduced impacts compared to those of the Project due to the reduced construction. Similar to the Project, the Reduced Acreage Alternative would only conduct construction activities and operational activities that produce higher levels of noise between the hours of 7 a.m. to 7 p.m., and noise levels at the nearest sensitive receptor would be below the County Development Code's 55 dBA limit during daytime hours of 7 a.m. to 10 p.m. However, the construction duration for the Reduced Acreage Alternative would be less than that of the Project. Vibration levels resulting from construction of the Reduced Acreage Alternative, similar to the Project, would likely be imperceptible at the lot line and would be well below the County's and the Federal Transit Administration's (FTA) threshold of 0.20 inches per second peak particle velocity (PPV). No excessive groundborne vibration or groundborne noise levels would be produced during the operations of the Project and the Reduced Acreage Alternative. Overall, the Reduced Acreage Alternative would result in reduced impacts to noise when compared to the Project.

## Transportation

The Reduced Acreage Alternative would result in similar impacts compared to those of the Project. Although the acreage of the Reduced Acreage Alternative would be reduced when compared to the Project, the vehicle miles traveled (VMT) generated during construction and operation would be similar. Therefore, impacts to VMT for the Reduced Acreage Alternative would remain less than significant. Like the Project, the Reduced Acreage Alternative would not conflict with adopted policies and plans regarding public transit, bicycle, or pedestrian facilities. Overall, the Reduced Acreage Alternative would result in similar impacts to transportation when compared to the Project.

#### Tribal Cultural Resources

The Reduced Acreage Alternative would result in reduced impacts to tribal cultural resources as compared to those of the Project. The Reduced Acreage Alternative would result in less impacts due to the reduced footprint. However, the Reduced Acreage Alternative would be required to implement **Mitigation Measures TCR-1** and **TCR-2** to reduce potential impacts to tribal cultural resources to less than significant. Impacts under the Reduced Acreage Alternative would be reduced compared to the Project.

# **5.4.3** Alternative **3** – Offsite Alternative

The Offsite Alternative includes the use of approximately 1,100 acres on BLM administered land, located outside of the City of Blythe and entirely within the County of Riverside. Given the land area, this Alternative could allow for development of a utility-scale renewable energy facility with similar generation and storage capacity as the Project. The Alternative 3 site is designated as a DFA for renewable energy in the DRECP. A 3.55-mile gen-tie line would travel south along Neighbors Boulevard to 6<sup>th</sup> Avenue, and then east to the Defrain Substation. Palo Verde College is located north of 6<sup>th</sup> Avenue and Rancho Ventana RV Resort and Blythe Municipal Golf Course are located approximately one mile southeast from the Offsite Alternative. Additionally, at least two farms / farm worker houses are located within or on the boundaries of this alternative location. **Figure 5-2**, *Offsite Alternative*, shows the proposed Offsite Alternative location, and approximate gen-tie line route.

## Aesthetics

The Offsite Alternative would include development of a utility scale solar and energy storage facility within a previously undisturbed desert area. There are two farms immediately adjacent to the Offsite Alternative site. Similar to the Project, the Offsite Alternative would replace views of the open desert with views of a utility scale solar and energy storage facility. In addition to the renewable energy facility, a gen-tie line would travel south along Neighbors Boulevard, and east along 6<sup>th</sup> Avenue to connect to the Defrain Substation.

Similar to the Project, the Offsite Alternative would introduce new features consistent with solar and energy storage facilities. The solar panels would have a uniform color, texture, and form, which would moderately contrast with the color and form of the desert vegetation and landscape. Construction of the Alternative would be similar to the Project and introduce construction lighting if required for night work, and construction lighting would be directed away from adjacent residences and toward active construction areas. Additionally, similar to the Project, the Offsite Alternative lighting would be shielded and directed downward to minimize light trespass onto surrounding properties, and lighting within the battery storage containers would be motion-activated. Substation lighting would normally be off unless activated by on-site personnel. Due to the relatively similar size, layout, and materials, implementation of the Offsite Alternative would result in less-than-significant impacts. However, because these impacts would be experienced by more people given the location, the Offsite Alternative would have a greater aesthetics impact than the Project.



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## **Air Quality**

The Offsite Alternative would involve the use of construction equipment and vehicles that would result in temporary construction emissions. This Alternative is largely similar in size and topography to the Project. Therefore, construction emissions would be similar to those of the Project and would be less than significant. This Alternative is closer to more existing development, including Palo Verde College, Rancho Ventana RV Resort, and the Blythe Municipal Golf Course. Additionally, this location has several farms / farm worker housing, including two houses located either side of Neighbor Road and within the half-mile sensitive receptor boundary. However, as discussed in Section 4.2 Threshold (b), implementation of the Project (both construction and operation) would not result in criteria pollutants emissions that would exceed the MDAQMD annual thresholds and would, therefore, result in less than significant impacts. However, similar to the Project, the Offsite Alternative would result in potential risk associated with Valley Fever due to ground disturbing activities associated with construction. Therefore, the Offsite Alternative would be similarly required to implement **Mitigation Measure AQ-1** to ensure worker safety through education and ensuring implementation of required OSHA safety measures. Since this Alternative would be similar size and operation as the Project, impacts would be similar to those of the Project.

## **Biological Resources**

The Offsite Alternative is within the planning area of several adopted local plans, including the Countywide Plan and the DRECP. The Offsite Alternative would be located in an area designated by the BLM as a DFA in the BLM adopted DRECP. The BLM has identified DFAs for renewable energy projects as a way to concentrate large utility scale renewable energy projects in areas that are outside of the California Desert Conservation Area Plan Boundary. This Alternative would be consistent with these plans. However, a location within a DFA does not necessarily mean impacts are avoided. According to the DRECP Environmental Impact Statement (EIS), the Offsite Alternative location has a high occurrence of Burrowing Owls and has had an occurrence of a Mountain Plover.<sup>1</sup> Additionally, this Offsite Alternative location does feature some Riverine features near the northeastern portion of the Offsite Alternative site, and would result in approximately 2.20 acres of impacts to riverine habitat. Similar mitigation measures identified for the Project (**Mitigation Measures BIO-1** through **BIO-11**) would be implemented to reduce impacts to a less than significant level. Therefore, the Offsite Alternative would result in similar impacts to those of the Project, and impacts would be reduced to less than significant.

## **Cultural Resources**

The DRECP EIS evaluated cultural resources within the entire DRECP plan area and noted a total of 16,002 listed, eligible, not evaluated, and unknown status of cultural resources including prehistoric, historic, multi-component, unknown type, and isolate in the plan area. While the locations of these cultural resources are not specifically noted, the potential remains for buried historic or archaeological resources or human remains to be unearthed during ground disturbing activities. The potential for disturbing these resources on the Offsite Alternative site would be similar to the potential at the Project Site and gen-tie line route, because both sites have been mostly undisturbed and are relatively the same size. Implementation of the Offsite Alternative would result in similar potential impacts on cultural resources compared to the Project due to the undeveloped nature of the Offsite Alternative site. Implementation

<sup>&</sup>lt;sup>1</sup> Bureau of Land Management, Desert Renewable Energy Conservation Plan Environmental Impact Statement, 2015. Available at https://eplanning.blm.gov/eplanning-ui/project/66459/570. Accessed October 16, 2022.

of **Mitigation Measures CUL-1** and **CUL-2** would reduce impacts to less than significant levels. Impacts from the Offsite Alternative would be similar to the Project.

## **Geology and Soils**

The Offsite Alternative would also require preparation of a Stormwater Pollution Prevention Plan (SWPPP) as part of the grading permit submittal package. The SWPPP would consider the full range of erosion control best management practices (BMPs) with consideration for any additional site-specific and seasonal conditions, as appropriate. Additional recommendations to minimize the potential for soil erosion to occur during construction, including limiting certain construction activities to dry weather, covering exposed excavated dirt during periods of rain, and protecting excavated areas from flooding with temporary berms. Additionally, the Offsite Alternative would require implementation of **Mitigation Measure GEO-1** to prepare a Final Geotechnical Report to support final project design and accommodate for soils underlaying the development footprint and gen-tie line.

Regarding paleontological resources, the Offsite Alternative location is located in an area of low or undetermined sensitivity for paleontological resources. However, the Offsite Alternative would still require implementation of **Mitigation Measures GEO-2** and **GEO-3** to reduce impacts to paleontological resources to less than significant. Therefore, impacts under the Offsite Alternative would be similar to those of the Project.

## **Greenhouse Gas Emissions**

Offsite Alternative construction would involve construction equipment and vehicles that would result in construction GHG emissions, which would be short-term and temporary. The Offsite Alternative would be of similar size to the Project and would similarly not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment. Construction emissions are likely to be the same as the Project. Therefore, impacts would be less than significant. Impacts from the Offsite Alternative would be similar to those of the Project.

## Hazards and Hazardous Materials

The Offsite Alternative would result in similar impacts to those of the Project. This Alternative would involve use of the same hazardous materials as the Project. Project construction activities would occur in accordance with all applicable standards for handling and transport of hazardous materials set forth by Riverside County, State, and federal regulations. The Offsite Alternative site has never been developed or used for agricultural purposes and as a result does not have any contaminated soils from past pesticide use or previous solar development. Access to the site would be provided by Midland Road that connects to Neighbors Boulevard and provides direct access to the site. The Project site for this Alternative is not located within a CAL FIRE designated Very High Fire Severity Zone (VHFSZ). Similar to the Project, the BESS creates potential for accidental release of hazardous substances during a fire event. However, this Alternative would comply with the applicable federal, State, and regional regulations and codes. While the Offsite Alternative has no hazardous waste sites on Geotracker, according to the California Department of Toxic Substances Control EnviroStor database search, there are three inactive Military Evaluation sites that need evaluation within a 0.25 mile distance of the Offsite Alternative site.

This Alternative would require the same use of hazardous materials as the Project and would have the same less than significant impact related to the potential for wildfires. This Alternative would require decommissioning after the life cycle of the project, similar to the Project. However, the Offsite Alternative

does have a potential to conflict with a nearby hazardous waste site, and for that reason, this Alternative's impacts would be greater than the Project. However, with compliance with all applicable regulations, impacts would be less than significant.

#### Noise

Alternative 3 has the potential to exceed Riverside County's 45-dBA noise standards both during construction and operations. Additionally, two residential properties are located immediately adjacent to the Alternative site, and vibration levels could exceed the Riverside County and FTA vibration thresholds and require mitigation measures to reduce impacts to a level less than significant. Blythe Airport is located approximately 4.3 mile southeast of this alternative and is not located within the boundaries of any airport land use compatibility plan, nor is it within any airport's noise impact zone. Noise impacts associated with the implementation of the Offsite Alternative would be greater than the Project and would require mitigation measures to reduce impacts to less than significant.

#### Transportation

Alternative 3 would produce a similar level of VMT during construction and operation, and would have to utilize local roads including Neighbors Boulevard and Midland Road. Like the Project, the Offsite Alternative would not result in inadequate emergency access or conflict with adopted policies and plans regarding public transit, bicycle, or pedestrian facilities. Any new access roads constructed for the Alternative would be designed to achieve Riverside County standards and would not increase hazards due to a design feature. No closures to Midland Road or Neighbors Boulevard would occur that may affect emergency access in the vicinity of the Alternative. Under the Offsite Alternative, impacts on transportation would be less than significant, but would be similar to the transportation impacts under the Project.

#### Tribal Cultural Resources

It is currently unknown what tribal cultural resources may be undiscovered on the Offsite Alternative site. While the County of Riverside General Plan does not show any identified cultural resources on the site, a potential remains for buried historic or archaeological resources to be unearthed during ground disturbing activities. Implementation of this Alternative would result in similar potential impacts on tribal cultural resources compared to the Project due to the undeveloped nature of the Alternative site, and mitigation measures would be required to reduce potential impacts to less than significant.

## **5.4.4 Comparison of Alternatives**

**Table 5-2**, *Comparison of Alternatives – Project Objectives*, identifies Project objectives consistency for the Project alternatives.

Table 5-2. comparison of Alter	natives ridjec			
	Ability of Alternatives to Meet Project Objectives			
Project Objectives	Alternative 1 - No Project Alternative	Alternative 2 – Reduced Acreage Alternative	Alternative 3 – Offsite Alternative	
Objective 1: Utilize property within the County to site PV solar power-generating facilities and energy storage near existing utility infrastructure.	Does not meet	Does meet	Does not meet	
Objective 2: Support California's efforts to reduce greenhouse gas (GHG) emissions consistent with the timeline established by the California Global Warming Solutions Act under California Assembly Bill 32, as amended by Senate Bill 32, which requires that Statewide GHG emissions are reduced to at least 40 percent below the Statewide GHG emissions limit by 2030.	Does not meet	Does meet at reduced capacity	Does meet	
Objective 3: Support California's aggressive Renewables Portfolio Standard (RPS) Program consistent with the timeline established by Senate Bill 100, which requires that by December 31, 2030, 60 percent of all electricity sold in the State shall be generated from renewable energy sources.	Does not meet	Does meet at reduced capacity	Does meet	
Objective 4: Develop an economically feasible and commercially financeable power-generating facility and energy storage system.	Does not meet	Does meet at reduced capacity	Does meet	
Objective 5: Provide solar-generated electricity to the California Independent System Operator (CAISO) grid and WAPA.	Does not meet	Does meet at reduced capacity	Does meet	
Objective 6: Promote the County's role as the State's leading producer of renewable energy.	Does not meet	Does meet at reduced capacity	Does not meet	
Objective 7: Provide green jobs to the County and the state of California.	Does not meet	Does meet	Does meet at reduced capacity	
Objective 8: Site and design the Project in an environmentally responsible manner consistent with current County guidelines.	Does not meet	Does meet	Does not meet	

## Table 5-2: Comparison of Alternatives – Project Objectives

**Table 5-3**, *Comparison of Environmental Issues*, summarizes potential impacts of the alternatives evaluated in this EIR when compared with potential impacts of the Project. Several criteria are considered for each resource topic and the conclusion considers the aggregate impact of the alternative (Reduced, Similar, or Greater) relative to the impacts of the Project.

Environmental Issue Area	Project	Alternative 1 – No Project Alternative	Alternative 2 - Reduced Acreage Alternative	Alternative 3 – Offsite Alternative
Aesthetics	Less than Significant	Reduced (No Impact)	Similar (Less than Significant)	Greater (Less than Significant)
Air Quality	Less than Significant with Mitigation	Reduced (No Impact)*	Reduced (Less than Significant with Mitigation)*	Similar (Less than Significant with Mitigation)
Biological Resources	Less than Significant with Mitigation	Reduced (No Impact)	Reduced (Less than Significant with Mitigation)	Similar (Less than Significant with Mitigation)
Cultural Resources	Less than Significant with Mitigation	Reduced (No Impact)	Reduced (Less than Significant with Mitigation)	Similar (Less than Significant with Mitigation)
Geology and Soils	Less than Significant with Mitigation	Reduced (No Impact)	Similar (Less than Significant with Mitigation)	Similar (Less than Significant with Mitigation)
Greenhouse Gas Emissions	Less than Significant	Reduced (No Impact)*	Reduced (Less than Significant)*	Similar (Less than Significant)
Hazards and Hazardous Materials	Less than Significant	Reduced (No Impact)	Similar (Less than Significant)	Greater (Less than Significant)
Noise	Less than Significant	Reduced (No Impact)	Reduced (Less than Significant)	Greater (Less than Significant with Mitigation)
Transportation	Less than Significant	Reduced (No Impact)	Similar (Less than Significant)	Similar (Less than Significant)
Tribal Cultural Resources	Less than Significant with Mitigation	Reduced (No Impact)	Reduced (Less than Significant with Mitigation)	Similar (Less than Significant with Mitigation)

\*While this alternative would consume less energy and generate fewer air quality and GHG emissions during construction and operation, it would not achieve the long-term benefits of the Project of generating as much renewable solar energy as the Project would generate.

# 5.5 ENVIRONMENTALLY SUPERIOR ALTERNATIVE

CEQA requires that an environmentally superior alternative be identified, which is an alternative resulting in the fewest or least significant environmental impacts. If the No Project Alternative is the environmentally superior alternative, CEQA Guidelines Section 15126.6(e)(2) requires that another alternative that could feasibly attain most of the Project's basic objectives be chosen as the environmentally superior alternative.

The No Project Alternative is the environmentally superior alternative. However, in accordance with CEQA Guidelines Section 15126.6(e)(2), a secondary alternative must be chosen since the No Project Alternative is environmentally superior.

Alternative 2, the Reduced Acreage Alternative, is conservatively considered as the environmentally superior alternative, because it would incrementally reduce certain impacts associated with the Project due to the reduced footprint (e.g., air quality, biological resources, cultural resources, and GHG emissions)

and not result in any significant and unavoidable impacts. As such, environmental impacts would be less than significant for all resource areas under either the Project or Alternative 2. Further, Alternative 2 would not realize certain environmental benefits and would not meet the Project objectives to the same extent as the Project. Alternative 2 would leave undeveloped underutilized land that has been planned for a solar energy facility, within an existing fenced area surrounded by similar renewable energy development. Alternative 2 would also contribute less than the Project in assisting California reach its renewable energy generation goals under SB 100. Alternative 2 would attain most of the Project Objectives, although it would not do so to the same extent as the Project.

# **CHAPTER 6 – OTHER CEQA CONSIDERATIONS**

This chapter presents the evaluation of other types of environmental impacts required by the California Environmental Quality Act (CEQA) Guidelines Section 15126, which requires that all aspects of a project must be considered when evaluating its impacts on the environment, including planning, acquisition, development, and operation.

# 6.1 CEQA REQUIREMENTS

As part of the analysis, an EIR must identify: (1) the growth-inducing impacts of the proposed project; (2) significant environmental effects of the proposed project; (3) significant irreversible environmental changes that would result from implementation of the proposed project; and (4) energy conservation. Each of these topics is discussed below.

## 6.2 **GROWTH-INDUCING IMPACTS**

CEQA Guidelines Section 15126.2(d) requires that an EIR discuss a project's potential to foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment. The CEQA Guidelines also indicate that it must not be assumed that growth in any area is necessarily beneficial, detrimental or of little significance to the environment. This section analyzes such potential growth-inducing impacts, based on criteria suggested in the CEQA Guidelines.

The San Bernardino County Countywide Plan/Policy Plan recognizes that certain forms of growth are beneficial, both economically and socially. CEQA Guidelines Section 15126.2(d) provides the following guidance on growth-inducing impacts:

A project is identified as growth-inducing if it "would foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment."

Growth-inducing impacts fall into two general categories: direct and indirect. Direct growth-inducing impacts are generally associated with providing urban services to an undeveloped area. Indirect, or secondary growth-inducing impacts, consist of growth induced in the region by additional demands for housing, goods, and services associated with the population increase caused by, or attracted to, a new project.

Growth inducement can be a result of new development that requires an increase in employment levels, removes barriers to development, or provides resources that lead to secondary growth. With respect to employment, construction workers would be working in the area temporarily and are not expected to relocate to the area with their families. It is anticipated that the construction workforce would commute to the Project Site each day from local communities, and the majority would likely come from the existing labor pool as construction workers travel from site to site as needed. Construction staff not drawn from the local labor pool would stay in any of the local hotels in Vidal or other local communities. Temporary construction workers are not expected to generate a demand for services that would require an extension of infrastructure into areas that have not previously been served by public facilities (e.g., new water mains, sewer mains, or roadways).

Also, the Project would not induce substantial unplanned population growth in the Project area, either directly or indirectly. The Project would not include the extension of utility infrastructure or construction

of new roadways other than that for the Project itself, that could induce development in the area. The Project would assist California in meeting its air quality and greenhouse gas (GHG) emissions reduction goals. As such, the Project would not directly induce growth related to provision of additional electric power.

Although the Project would contribute to the energy supply, which supports growth, the development of power infrastructure is a response to increased market demand. Rather, energy demand, as determined by the California Public Utilities Commission with input from the California Energy Commission (CEC), drives generation procurement. Procurement does not drive an increase in either utility customers or energy consumption. It does not induce new growth. San Bernardino County (County) planning documents already permit and anticipate a certain level of growth in the area of the Project and in the State as a whole, along with attendant growth in energy demand. It is this anticipated growth that drives energy-production projects, not vice versa. The Project would supply energy to accommodate and support existing demand and projected growth, but it would not foster any new growth. Therefore, any link between the Project and growth in the County would be speculative.

## 6.3 SIGNIFICANT UNAVOIDABLE ENVIRONMENTAL IMPACTS

CEQA Guidelines Section 15126.2(b) requires that an EIR discuss any significant impacts associated with a project.

Sections 4.1 through 4.10, and Section 6.5, Effects Found Not to be Significant, of this Draft EIR describe the potential environmental impacts of the Project and recommend mitigation measures to reduce impacts to a less than significant level where feasible. The Executive Summary includes **Table ES-1**, *Summary of Significant Impacts and Mitigation Measures*, which summarizes the impacts, mitigation measures, and levels of significance before and after mitigation.

After thorough study and environmental review, as provided in this Draft EIR, it was determined that Project-level and cumulative impacts would not result in any significant and unavoidable impacts.

## 6.4 IRREVERSIBLE ENVIRONMENTAL CHANGES

CEQA Guidelines Section 15126.2(c) defines an irreversible impact as an impact that uses nonrenewable resources during the initial and continued phases of the Project. Irreversible impacts can also result from damage caused by environmental accidents associated with the Project. Irretrievable commitments of resources should be evaluated to ensure that such consumption is justified.

Project buildout would commit nonrenewable resources during Project construction and operation. During Project construction, nonrenewable resources such as oil, gas, and other fossil fuels would be consumed, primarily in the form of production of Project facilities and transportation fuel for construction workers.

The Project would operate a solar energy facility that would generate 160 megawatts (MW) of renewable energy. Solar energy generation is considered a renewable process because its source is the almost unlimited amount of energy from the sun itself. However, the Project would generate minimal periodic operational vehicle trips internal to the Project Site for required maintenance activities, 40 trips per year for solar panel washing, and may require materials for replacement parts/repairs over the course of facility operations. Therefore, an irreversible commitment of nonrenewable resources would occur as a result of short-term Project construction and long-term Project operations. However, assuming that those

commitments occur in accordance with the adopted goals, policies, and implementation measures of the San Bernardino Countywide Plan/Policy Plan, as a matter of public policy, those commitments have been determined to be acceptable. The San Bernardino County Countywide Plan/Policy Plan ensures that any irreversible environmental changes associated with those commitments will be minimized. Furthermore, the Project will provide a new source of renewable energy that would reduce the need for future consumption of nonrenewable fossil fuels for energy use.

At the end of the Project's operation term, the Applicant may determine that the Project should be decommissioned and deconstructed. Should the Project be decommissioned, the Project Applicant is required to restore land to its pre-Project state. Consequently, some of the resources on the Project Site could potentially be retrieved after the Project Site has been decommissioned. Concrete footings, foundations, and pads would be removed and recycled at an off-site location. All remaining components would be removed, and all disturbed areas would be reclaimed and recontoured. The Applicant anticipates using the best available recycling measures at the time of decommissioning.

## 6.5 EFFECTS NOT FOUND TO BE SIGNIFICANT

In addition to the environmental impact thresholds analyzed in detail in this Draft EIR, the County has determined during the Notice of Preparation (NOP) and early review of the Project that the construction and operation of the Project would not result in potentially significant impacts to the environmental impact topics discussed below. CEQA Guidelines Section 15128 requires a brief description of any possible significant effects that were determined not to be significant and were not analyzed in detail within the environmental analysis.

The discussion below presents the analysis of the effects related to aesthetics, agricultural and forestry resources, air quality, biological resources, energy, geology and soils, hazards and hazardous materials, hydrology and water quality, land use and planning, mineral resources, noise, population and housing, public services, recreation, transportation, utilities and service systems, and wildfire were found to not be significant. Any thresholds or topics not addressed in this section are addressed in Section 4, Environmental Impact Analysis, of this Draft EIR.

# 6.5.1 Aesthetics

## Threshold (a): Would the Project have a substantial adverse effect on a scenic vista?

The Natural Resources Element of the San Bernardino Countywide Plan/Policy Plan includes goals and policies to preserve significant scenic vistas and natural features. Policy NR-4.1 states that consideration will be provided for the location and scale of development to preserve regionally significant scenic vistas and natural features.

The County is divided into Mountain Region, Valley Region, and Desert Region according to the Countywide Plan/Policy Plan. The Project Site is within the Desert Region of the County. While there are scenic vistas in the Desert Region, including views across desert landscapes, toward mountains, ridgelines, and rock formations, no designated scenic views, scenic vistas, or scenic resources are known to occur in the vicinity of the Project. The Project Site has views of mountain foothills to the southeast. However, the solar equipment proposed to be constructed on the Project Site is low in profile, including PV modules mounted on fixed-tilt foundations or tracker units and associated electrical equipment that would display a height of approximately 12 feet. The Project would also include overhead collection lines, access roads,

and a 6-foot chain-link perimeter fence. Although the Project would alter the existing character of the Project Site, the introduction of Project components would not substantially obstruct or interrupt views of the surrounding mountains which would remain visually prominent. Less than significant impacts on scenic vistas are expected to occur, and no further analysis is required.

# Threshold (b): Would the Project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

The Project Site is generally flat and contains no significant geologic features or vegetation unique to the area that could be considered scenic. Elements of the Project would be visible for motorists traveling along U.S. Route 95, including solar racks, perimeter fencing, access roads, and overhead collection lines. However, this route is not a County- or State-designated scenic highway. The closest eligible State scenic highway is Interstate 40 from Barstow to Needles, approximately 50 miles north of the Project Site.<sup>1</sup> Therefore, the Project would not be visible within this viewshed. Additionally, construction of the Project would not entail the removal of trees, rock outcroppings, and/or historic buildings, as these features do not occur on the Project Site. Impacts would be less than significant, and no further analysis is required.

# 6.5.2 Agricultural and Forest Resources

## Threshold (a): Would the Project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?

The Project Site is vacant desert land with scattered abandoned residences nearby. According to the Department of Conservation's Important Farmland Finder, no Prime Farmland, Unique Farmland, or Farmland of Statewide Importance is designated within the Project Site.<sup>2</sup> The closest designated farmland is approximately 20 miles south of the Project Site. No impact would occur, and no further analysis is warranted.

# Threshold (b): Would the Project conflict with existing zoning for agricultural use, or a Williamson Act contract?

The Project Site is vacant desert land with scattered residences nearby. According to the Department of Conservation's Williamson Act Contract Land Map, no farmland is enrolled in a Williamson Act contract within the Project Site. The closest land enrolled in a Williamson Act Contract is approximately 20 miles south of the Project Site. The Project Site is zoned Resource Conservation (RC) which does permit agricultural uses. Additionally, the Project is compatible with the current zoning designation of RC, upon approval of a Conditional Use Permit (CUP). No impact would occur, and no further analysis is warranted.

<sup>&</sup>lt;sup>1</sup> California Department of Transportation (Caltrans), California State Scenic Highway Systems Map. Available at <u>https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa</u>. Accessed September 30, 2022.

<sup>&</sup>lt;sup>2</sup> California Department of Conservation, California Important Farmland Finder. Available at <u>https://maps.conservation.ca.gov/DLRP/CIFF/</u>. Accessed September 30, 2022.
# Threshold (c): Would the Project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

The Project Site is currently mostly vacant desert land and is not forested. As such, the Project Site is not designated as forest land or timberland. The Project Site is zoned RC which does not include timberland or forest land uses. The Project would not include timberland production uses. No impact would occur, and no further analysis is warranted.

#### Threshold (d): Would the Project result in the loss of forest land or conversion of forest land to nonforest use?

As mentioned above, the Project Site is currently vacant land and does not include forest land and has not been zoned for forest land or timberland uses. The Project would not result in the loss of forest land or conversion of forest land to non- forest use. Therefore, the Project would not conflict with the existing/future zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production as there is none. No impact would occur, and no further analysis is warranted.

# Threshold (e): Would the Project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or the conversion of forest land to non-forest use?

The Project Site is surrounded by vacant desert land and would not convert Farmland to non-agricultural use or convert forest land to non-forest use. No impact would occur, and no further analysis is warranted.

### 6.5.3 Air Quality

## Threshold (d): Would the Project result in other emissions (such as those leading to odors adversely affecting a substantial number of people)?

Odors would be generated from vehicles and equipment exhaust emissions during construction of the Project. Odors produced during construction are typically attributable to tailpipes of construction equipment. These odors would be temporary and intermittent throughout the Project Site. CARB's *CEQA Air Quality Handbook* indicates that land uses typically associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The Project is a land use that is not consistent with those labeled in CARB's Handbook as being associated with odorous complaints and any odors produced would be minimal and easily dispersed into the atmosphere.

Additionally, the Project is not located near any uses that are sensitive to odors and no other high-odorproducing use. Therefore, the Project would not result in odors, and no impacts would occur. No further environmental analysis is required.

### 6.5.4 Biological Resources

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

The Project is located within the Vidal Wash and Upper Parker Valley-Colorado River watersheds. One small Freshwater Forested/Shrub Wetland feature was identified on National Wetland Inventory maps in the center of the Project Site.<sup>3</sup> However, no wetlands or wetland features were identified within the Project Site during survey efforts. Therefore, there would be no impacts to state or federally protected wetlands, and no further investigation is required.

#### Threshold (f): Would the Project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

The Project is not located within an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan and would, therefore, have no impact on these areas. The Project is within the Desert Renewable Energy Conservation Plan. However, the Desert Renewable Energy Conservation Plan applies only to the Federal Bureau of Land Management (BLM)-administered lands and does not apply to the Project because it is on private land. The Project is not located within critical habitat designated by the U.S. Fish and Wildlife Service (USFWS). Therefore, there would be no impact on critical habitat. No further investigation is required.

### 6.5.5 Energy

# Threshold (a): Would the Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

The Project would increase the demand for electricity and gasoline at the Project Site during construction, but usage would be minimal during Project operations. The energy needs for the Project construction would be temporary and are not anticipated to require additional capacity or increase peak or base period demands for electricity or other forms of energy. Construction equipment use and associated energy consumptions would be typical for that associated with the construction projects of this size. Thus, the Project's energy consumption during the construction phase would not be considered wasteful, inefficient, or unnecessary.

As stated above, the Project would not increase the demand for electricity or natural gas at the Project Site during operations. The Project does not include any permanent components that would significantly increase demand for existing sources of energy with the exception of gasoline usage for bimonthly maintenance visits totaling up to six to eight times per year, and operations of security lighting on site. The Project development of a solar energy and battery storage facility would provide a new secure and reliable electricity supply, improve community infrastructure, and support sustainable electricity generation. By building the Project, a clean, reliable resource would be gained to help integrate renewable

<sup>&</sup>lt;sup>3</sup> United States Fish and Wildlife Service (USFWS), National Wetland Inventory. Available at <u>https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/</u>. Accessed September 30, 2022.

energy sources, reduce dependence on gas-fired generation, eliminate ocean water for cooling, reduce freshwater consumption, and reduce greenhouse gas (GHG) emissions and criteria air pollutant emissions. Impacts to energy resources during construction would be less than significant, and the Project would create a beneficial impact during operations.

## Threshold (b): Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Many of the regulations regarding energy efficiency are focused on increasing the energy efficiency of buildings and renewable energy generation, as well as reducing water consumption and reliance on fossil fuels. The Project, which comprises the building of a solar energy and battery storage facility, would be part of a sustainable solution to enable increasing amounts of renewable energy-generating sources to be accessed. Renewable energy is a focus of the County's Countywide Plan/Policy Plan and Renewable Energy and Conservation Element. Therefore, the Project would be in alignment with the County's energy goals identified below.

- **Policy RE 2.1** Support solar energy generation, solar water heating, wind energy and bioenergy systems that are consistent with the orientation, siting and environmental compatibility policies of the Countywide Plan/Policy Plan.
- **Policy RE 2.1.1** Utilize renewable energy development standards in the Development Code to minimize impacts on surrounding properties.
- **Policy RE 2.2** Promote use of energy storage technologies that are appropriate for the character of the proposed location.
- Policy RE 2.2.1Encourage onsite energy storage with RE generation facilities, consistent with County<br/>Development Code requirements.
- **Policy RE 2.2.2** Encourage and allow energy storage facilities as an accessory component of RE generation facilities.
- **Policy RE 2.2.3** Establish thresholds for conditions under which energy storage facilities are a primary use and subject to separate permit processes.
- **Policy RE 2.2.4** Periodically review and encourage appropriate technology types for energy storage facilities.
- **Policy RE 2.2.5** Support state policies and efforts by utility companies to plan for and develop energy storage technologies through legislative advocacy and coordination with utility companies.

No conflicts with renewable energy or energy efficiency plans would occur. Impacts to energy resources would be less than significant, and no further analysis is required.

### 6.5.6 Geology and Soils

Threshold (a): Would the Project directly or indirectly cause potential substantial adverse effects, including risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?

Southern California is a seismically active region subject to strong ground acceleration from earthquake events along major regional faults. However, according to the County's Geologic Hazard Overlay maps, the Project Site is not in the vicinity of a known earthquake fault. The closest earthquake fault line, the Chemehuevi graben fault, is approximately two miles long, and located approximately 30 miles north of the site and adjacent to Lake Havasu. The Project would not require substantial ground disturbance that could induce seismic activity and would not include any habitable structures. Nonetheless, the design of any structures on the Project Site would be designed to accommodate seismic loading, pursuant to the 2019 California Building Code. Specific standards that may be used for the Project include but are not limited to, anchoring (or other means of securing application structures), use of appropriate materials, and flexible joints where appropriate. Therefore, impacts from proximity to fault zones are considered less than significant, and no further analysis is required.

#### ii) Strong seismic ground shaking?

As mentioned above, Southern California is a seismically active region, but the Project Site is 30 miles north of the nearest earthquake fault, and no habitable structures are proposed as part of the Project. The Project components would be designed to resist structural collapse to the greatest extent possible through incorporation of design guidelines from the California Building Standards Code and the County Development Code. Impacts are considered less than significant, and no further analysis is required.

#### iii) Seismic-related ground failure, including liquefaction?

According to the County's Geologic Hazard Overlay maps, the Project Site is not located in the vicinity of any areas prone to liquefaction, with the closest area being approximately 30 miles north. (County 2007b). Therefore, the potential for liquefaction at this Project Site is considered to be low. Furthermore, the design of the Project would incorporate requirements of the California Building Code that would address potential seismic-related effects such as liquefaction, settlement, and lateral spreading. With incorporation of applicable standards, the Project would not result in potential impacts associated with seismic-related ground failure, and impacts would be less than significant. No further analysis is required.

#### iv) Landslides?

The County's Geologic Hazard Overlay maps identify no areas prone to landslide in the vicinity of the Project Site, with the closest area prone to landslide more than 100 miles west of the Project Site. Additionally, the Project area is relatively flat terrain where landslides have not historically been an issue. No impacts would occur, and no further analysis is required.

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

As previously discussed, the Project Site is not identified as an area prone to landslides or liquefaction and is not in the vicinity of such an area. According to the Land Subsidence Potential map from the Countywide Plan, there is insufficient data of the estimated potential subsidence of the area. Subsidence is commonly caused by the removal of subsurface water and underground mining. The Project does not propose any mining activities or removal of subsurface water. Further, no significant grading is proposed as part of the Project, and only minor ground disturbance is anticipated. Therefore, the impact to geologic stability would be less than significant and no further analysis is required.

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

As previously discussed, the County's Geologic Hazard Overlay maps do not identify areas prone to landslide to be in the vicinity of the Project Site. The closest areas prone to landslides are more than 100 miles west of the Project Site. According to the Countywide Plan, the Desert Regions of the County have low to moderate levels of expansive soils. Because of the remote location, the U.S. Department of Agriculture Soil Map is unable to classify the soil composition of the Project Site. However, the Project would be unmanned, and design of the Project would incorporate requirements of the California Building Code that would address potential seismic-related effects. With incorporation of applicable standards, the Project would not result in potential impacts associated with expansive soil, and impacts would be less than significant. Therefore, no further analysis is required.

# Threshold (e): Would the Project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

The Project would be unmanned and does not propose to use septic tanks or alternative wastewater disposal systems. Therefore, the Project would not result in impacts relative to wastewater. No impacts would result, and no further investigation is required.

### 6.5.7 Hazards and Hazardous Materials

## Threshold (a): Would the Project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Construction would involve short-term use of hazardous substances such as fuels, lubricants, adhesives, and solvents. The potential risk associated with the accidental discharge during use and storage of such construction-related hazardous materials is considered low because the use, storage, transport, and disposal of hazardous materials used in construction of the facility would be carried out in accordance with federal, state, and County regulations. These regulations include those set forth by the County Fire Department's Hazardous Materials Division (HMD), California Division of Occupational Safety and Health (Cal/OSHA), the California Accidental Release Prevention (CalARP) Program, the California Health and Safety Code, and the Environmental Protection Agency's (EPA) Hazardous Waste Control Act. Additionally, the Project would implement best management practices (BMPs) pursuant to the National Pollutant

Discharge Elimination System (NPDES) Construction General Permit. Safety Data Sheets (SDSs) for all applicable materials present on the Project Site would be made readily available to personnel as required by the San Bernardino County Fire Department Hazardous Materials Division. During construction of the facility, non-hazardous construction debris would be generated and disposed of in local landfills. Sanitary waste would be managed using portable toilets, with waste being disposed of at approved sites.

The AC/DC collection system would be installed in shallow subsurface trenches. If explosives are to be used, the applicant would be required to obtain all necessary permits and approvals through the San Bernardino County Fire Department HMD. This may include preparing a Business Emergency Contingency Plan and securing a Certified Unified Program Agency (CUPA) Permit for hazardous materials handling and/or hazardous waste generation, as required by the HMD. Explosives would be transported, handled and used in accordance with all applicable laws and regulations.

Operation of the Project would include limited chemical use such as mineral oil in the substations and lithium ion in the battery structures. The Project is designed to comply with the requirement of Chapter 6.95 of the Health and Safety Code, including containment provisions for potential spills by containing the materials within boxed components and mounting these on concrete foundations. All materials would be used in stable applications and contained in accordance with applicable regulatory requirements, which include the Hazardous Materials Transportation Act, International Fire Code, and Title 22 and Title 27 of the California Code of Regulations. Impacts would be less than significant, and no further investigation is warranted.

# Threshold (c): Would the Project, emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.

As previously indicated, the nearest schools in the area are Blake Primary School, Wallace Elementary School, Wallace Junior High School, and Parker High School, located approximately nine miles from the Project site in Parker, Arizona. Therefore, the Project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing proposed school. There would be no impact and no further analysis is required.

# Threshold (d): Would the Project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

The Project Site is not located on a known site or in the vicinity of a known site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. Therefore, the Project would result in no impacts associated with hazardous materials sites, and no further analysis is required.

# Threshold (e): For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

The Project Site is not located within an airport land use plan or within two miles of an airport. The Project Site is approximately eight miles southeast of the Vidal Junction Airport and ten miles southwest of Parker Municipal Airport in Arizona. The closest airport where a Comprehensive Land Use Plan has been adopted is Needles Municipal Airport, approximately 50 miles to the north. Additionally, the Project Site would be

unmanned and operated, monitored, and dispatched remotely on a day-to-day basis. No impacts would occur, and no further analysis is required.

### 6.5.8 Hydrology and Water Quality

## Threshold (a): Would the Project violate any water quality standards or waste discharge requirements, or otherwise substantially degrade surface or ground water quality?

The Project would be required to obtain a NPDES General Permit for Discharges of Storm Water Associated with Construction and Land Disturbance Activities. Compliance with the General Construction Permit requires the development of a Stormwater Pollution Prevention Plan (SWPPP) by a gualified SWPPP developer, the elimination or reduction of non-stormwater discharge off site into storm drainage systems or other water bodies, and the implementation of BMPs throughout the Project construction period. Stormwater BMPs would be required to limit erosion, minimize sedimentation, and control stormwater runoff water quality during Project construction activities. The SWPPP requires a description of the Project Site; identification of sources of sediment and other pollutants that may affect the quality of stormwater discharges; and a list of BMPs to provide sediment and erosion control, waste handling measures, and non-stormwater management. The specific BMPs that would be implemented with the Project would be identified during development of the SWPPP, which would occur concurrently with final Project design and be completed prior to construction. Typical construction BMPs include, but are not limited to, watering soil, soil cover of inactive areas, gravel bags, and fiber rolls. Compliance with the SWPPP would ensure that construction activities would not degrade the surface water quality of receiving waters to levels that would exceed the standards considered acceptable by the Colorado River Regional Water Quality Control Board (RWQCB) or other regulatory agencies.

Maintenance of the Project would include cleaning, inspections, drive motor repair, tracker repair, electrical connection repair, and panel replacement. Cleaning of the solar panels is expected to be conducted up to two times per year, and water used would not contain any cleaning agents or other additives. Maintenance of the proposed on-site substation would involve substation and line inspections, electrical connection repair, and communications repair. No on-site operations and maintenance buildings are proposed, and all facilities would be unmanned. Therefore, the Project would not violate any water quality standards or waste discharge requirements. Impacts would be less than significant, and no further analysis required.

# Threshold (b): Would the Project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

The Project may obtain construction and operational water either by purchasing it from a local purveyor or by using existing on-site wells or a combination of both. The closest groundwater basin to the Project Site is the Calzona Valley Groundwater Basin, which is managed by the Metropolitan Water District of Southern California. The total storage capacity is estimated at 1,500,000 acre-feet. Natural recharge is estimated at approximately 400 acre-feet per year with an annual extraction of 45 acre-feet. Primary source of recharge to the groundwater basin is runoff from surrounding mountain ranges (Department of Water Resources 2004). Water demand during construction is estimated at a total of 10 to 15 acre-feet, which would be trucked in or obtained from a local purveyor. Regardless of source, most (89 percent) of the ground surface within the Project area would be permeable, and operational water use would be small, estimated at approximately 1 acre-foot per year or less. The small amount of water to be used and

the large amount of permeable surface within the Project Site would not deplete groundwater supplies or interfere substantially with groundwater recharge such that a net deficit in aquifer volume or a lowering of the local groundwater table level would result. Impacts would be less than significant, and no further analysis is required.

- Threshold (c): Would the Project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:
  - i) result in substantial erosion or siltation on- or off-site;
  - ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;
  - iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources or polluted runoff; or

As previously mentioned, the Project would not result in substantial erosion or siltation, as BMPs would be implemented during construction in compliance with the SWPPP and the General Construction Permit issued for the Project, which would ensure that erosion and siltation do not result in any off-site water quality impacts. The County Development Code Chapter 85.11 requires that the Project implement site design measures, source control, and/or permanent post-construction pollutant and hydro-modification control BMPs to reduce sediment from erosion or siltation to the maximum extent practicable from entering stormwater runoff during operations. The incremental amount of impervious surface that would be introduced by the Project would be small and would not substantially interfere with surface runoff. As such, the Project would not substantially alter the existing drainage pattern of the Project Site or substantially increase the rate or amount of surface runoff in a manner that would result in substantial erosion or siltation on or off site. Impacts would be less than significant, and no further analysis is required.

#### iv) Impede or redirect flood flows?

According to the Federal Emergency Management Agency (FEMA) Flood Map Service Center, the Project is not located within a special flood hazard area and is designated as Zone D. Zone D is designated for areas where there are possible but undetermined flood hazards.<sup>4</sup> Impacts would be less than significant, and no further analysis is required.

## Threshold (d): Would the Project in flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

The Project Site is not located within a dam inundation zone and is located approximately 200 miles east of the Pacific Ocean and therefore is not at risk of tsunami. The Colorado River Floodway is located approximately 0.2 miles east from the Project. However, according to the FEMA Flood Map Service Center, the Project is not located within a special flood hazard area and is designated as Zone D. Zone D is designated for areas where there are possible but undetermined flood hazards. Impacts would be less than significant, and no further analysis is required.

<sup>&</sup>lt;sup>4</sup> Federal Emergency Management Agency (FEMA), FEMA Flood Map Service Center. Available at <u>https://msc.fema.gov/portal/home</u>. Accessed September 30, 2022.

## Threshold (e): Would the Project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

As mentioned above, the Project would be unmanned during operations, with no habitable structures or restroom facilities. Any operational water that may be required for routine maintenance would be trucked in from off site or sourced by a new service from a local purveyor. The majority of the Project would consist of gravel infill and remain pervious to allow infiltration of precipitation. The incremental amount of impervious surface that would be introduced by the Project would be small and would not substantially interfere with groundwater recharge. As a result, the Project would not conflict with or obstruct implementation of the County's Desert Groundwater Management Ordinance or a future water quality control plan or sustainable groundwater management plan and would not conflict with the 2015 Mojave Water Agency Urban Water Management Plan. Impacts would be less than significant, and no further analysis is required.

### 6.5.9 Land Use and Planning

#### Threshold (a): Would the Project physically divide an established community?

Existing development in the area includes rural access roads and scattered rural residences. The Project Site is located in an unincorporated part of the County that has sparse residential development in the immediate area. The Project Site is primarily bordered by undeveloped land. Therefore, the Project would not divide an established community. No impact would occur, and further analysis is not warranted.

# Threshold (b): Would the Project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

The Project would not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project adopted for the purpose of avoiding or mitigating an environmental effect. The current land use designation for the Project Site is RC, which allows development of electrical power generation facilities with a CUP. The Project would be required to comply with all CUP conditions of approval. Because the Project would be consistent with the existing land uses, impacts would be less than significant, and no further analysis is required.

### 6.5.10 Mineral Resources

- Threshold (a): Would the Project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?
- Threshold (b): Would the Project result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

According to maps produced by the California Department of Conservation (DOC), the Project Site is classified as Mineral Resource Zone (MRZ) 4, which defines areas where geologic information does not rule out either the presence or absence of mineral resources. No mines are in close proximity to the Project Site, with the closest being a gypsum open pit mine approximately 27 miles southwest. According to the San Bernardino Countywide Plan EIR, the Project Site is not located within MRZ 2 or 3 which are

areas identified and have the potential to have significant resources. Additionally, the Project does not involve extensive grading or excavation that would preclude the extraction of any potential mineral resources in the future. According to the DOC Well Finder, there are no oil or gas wells located within the Project Site. No impact would occur, and no further analysis is needed.

### 6.5.11 Noise

#### Threshold (c): For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public us airport, would the Project expose people residing or working in the project area to excessive noise levels?

The Project Site is approximately eight miles southeast of the Vidal Junction Airport and ten miles southwest of Parker Municipal Airport in Arizona, but neither of these airports has adopted land use plans. The closest airport where a Comprehensive Land Use Plan has been adopted is Needles Municipal Airport, approximately 50 miles to the north. Therefore, the Project Site is outside the airport's noise contours. Additionally, the Project Site would be unmanned and operated, monitored, and dispatched remotely on a day-to-day basis. No impact would occur, and no further analysis is required.

### 6.5.12 Population and Housing

# Threshold (a): Would the Project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and business) or indirectly (for example, through extension of roads or other infrastructure)?

The Project Site encompasses 21 mostly vacant, undeveloped parcels with scattered structures associated with an abandoned rural residence, garage (storage) areas, and several WAPA towers. Considering the Project is a solar energy facility with battery energy storage, it does not involve development of residential units. This physical change would not induce substantial population growth in the area because the Project does not propose extension of new major infrastructure. The extended roadways would only traverse the Project Site. The Project would not construct other infrastructure into previously unserved areas, and no regulatory changes are proposed that would allow increased population growth.

Construction of the Project would temporarily increase the number of persons present at the Project Site. However, these workers would only be present at the Project Site during construction of the Project Site. Once operational, the Project Site would not require the same amount of staff needed during construction. The Project Site would be unmanned and would only require minimum staff for inspection and maintenance and would not introduce a significant amount of employment that would require additional permanent housing within the area. Impacts would be less than significant, and no further analysis is needed.

## Threshold (b): Would the Project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

The Project would displace housing. However, it would not be significant because the current properties are vacant/abandoned, and replacement housing would not be required. The homes neighboring the Project Site are abandoned and unfit for residency. Impacts would be less than significant, and no further analysis is required.

### 6.5.13 Public Services

- Threshold (a): Would the Project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:
  - i) Fire Protection?

The Project Site is not located within a CAL FIRE designated Very High Fire Severity Zone (VHFSZ). However, equipment associated with the Project such as transformers, capacitors, electric transmission lines, substations, vehicles, and gas- or electric-powered small hand tools may be potential sources of ignition during construction, operation, and maintenance. To combat potential fire risks, the Project will be required to comply with the San Bernardino County Fire Protection District (SBCFPD) Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code. These regulations implement state-of-the-art development and performance standards that ensure the safe installation, operations, and maintenance of utility scale BESS. The Project would also implement fire and safety features at the *Module Level*, *BESS Container Level*, *Site Level*, and *Operational Level* which are described below.

*Module Level:* The first priority in fire safety is to prevent an event from ever occurring and limit the extent of that fire if it does occur. Pursuant to the National and International Fire Codes, the voltages, currents, and temperatures of battery modules would be required to be monitored and controlled 24/7 to ensure every cell remains within its safe operating parameters. These monitoring and control systems are required to transmit an alarm signal if potentially hazardous temperatures or other conditions such as short circuits, over voltage or under voltage, are detected. If a module-level system failure is detected, the system automatically controls and isolates individual modules from the rest of the system preventing the conditions that could lead to an event. Furthermore, battery manufacturers must prove that battery modules, if they catch fire, will not cause a fire to propagate to other modules, racks, or other enclosures. As part of this process, manufacturers must show that their batteries can pass rigorous UL 1973 and UL 9540A testing and certification. This testing includes demonstration of adequate system controls and alarms, separations between equipment, protections such as fire-retardant barriers and coatings, fire suppression systems, and ventilation systems to limit failure to a single battery module.

*Container Level:* The National and International Fire Codes contain safety standards for construction of battery enclosures include: mounting, elevation of enclosures from the ground, materials, fire resistant barriers as well as requirements addressing insulation, wiring, switches, transformers, spacing and grounding; safety standards for performance, such as tests for temperature, volatility, impact, overload of switches, and an impact drop test; as well as standards for manufacturing, ratings, markings, and instruction manuals. In addition to the many individual standards referenced, a Failure Mode and Effects Analysis (FMEA) must be performed for each system enclosure and requires a test to ensure safe compatibility of the system's parts. The Project would also be equipped with integrated fire and safety systems, such as air cooling/conditioning systems, deflagration, gas-ventilation, gas, heat and smoke detection and alarms, and fire extinguishing and suppression systems within each container.

*Site Plan Level:* The Project Site layout is designed for operational safety pursuant to SBCFPD Fire Code requirements, including fire access routes, setbacks, fire hydrants, and fire-resistant perimeter walls.

These site design elements would be reviewed and approved by the SBCFPD as part of the CUP Site Plan review.

*Operational Level:* The Project would obtain an operational permit and would be operated in accordance with the SBCFPD Fire Code's standards for commissioning, inspection, repair, and decommissioning. This will include the creation and implementation of an Emergency Response Plan that will govern coordination and response to a fire emergency at the Project Site. The County's Emergency Response Plan contains protocols to ensure that first responders are adequately trained to control a fire emergency at the Project Site during both Project development and operation.

Compliance with the SBCFPD Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code, as well as inclusion of the Project's fire and safety features, would reduce the potential for a fire event. Further, the Project would be subject to the Public Safety Services Impact Fee of the County's Development Code Section 84.29.040(c)) to ensure that the Project would not affect fire performance objectives. Therefore, the Project would maintain acceptable service ratios, response times, and other performance objectives for fire protection services. Impacts to fire protection would be less than significant, and no further analysis is required.

#### ii) Police Protection?

The Project Site and other unincorporated portions of the County are served by the San Bernardino County Sheriff's Department. The nearest San Bernardino County Sheriff's Station is located approximately 100 miles west of the Project Site. Due to the large expanse that the deputies cover, they regularly assist and are assisted by the California Highway Patrol, Barstow Police Department, and the BLM Rangers. The Project would be unmanned, remotely monitored, and fenced for security. The Project would include motion activated lighting installed to help with site security. And as previously stated, the Project would not introduce additional permanent residences to the Project Site that would require increased demand for public services including police protection. Therefore, the Project would not impact service ratios, response times, or other performance objectives related to police protection. Additionally, the Project would be subject to the payment of Public Safety Services Impact Fees in conformance with San Bernardino County Development Code Section 84.29.040(c) for solar facilities to ensure that the Project would not adversely affect the provision of police protection services in the area. Therefore, the Project would not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities or need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any police protection services. Impacts would be less than significant and no further analysis is required.

#### iii) Schools?

The Project does not include residential uses, would be unmanned and would not increase demand on school facilities. Construction of the Project would introduce a temporary increase in workers, but they would not be anticipated to relocate to the area or bring their families for the construction, as the workers would be sourced from San Bernardino or surrounding counties and/or be active for only a few months. During operations, the Project Site would be unmanned and would only require minimum staff for inspection and maintenance on a monthly or bimonthly basis. Employees would be traveling from an existing area to the Project, and would not require expansion of public services, including expanding school services to the area to service new residences.

As such, the Project would not result in an increase in population in the area that would necessitate additional schooling services. No impacts would result from the Project, and no further analysis is required.

#### iv) Parks?

The Project does not include residential uses, would be unmanned and would not increase demand on park facilities. Construction of the Project would introduce a temporary increase in workers, but they would not be anticipated to relocate to the area or bring their families for the construction, as the workers would be active only for the duration of the construction phase. As stated in the previous section, the Project Site would be unmanned and require minimum staff on a monthly or bimonthly basis for inspection and maintenance. Staff would be traveling from an existing area to the Project. As such the Project would not result an increase in population into the area that would necessitate additional park services. No impacts would result from the Project, and no further analysis is required.

#### v) Other Public Facilities?

The Project does not include residential uses would be unmanned and would not increase demand on other public facilities. Construction of the Project would introduce a temporary increase in workers, but they would not be anticipated to relocate to the area. As such, the Project would not cause an increase in population in the area that would necessitate addition of other public facilities (such as libraries). No impacts would result from the Project, and no further analysis is required.

### 6.5.14 Recreation

# Threshold (a): Would the Project increase the use of the existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

The Project involves construction of a solar energy facility in a highly rural area of the County. No parks are in the vicinity, and the closest recreational facility is the Big River RV Park approximately five miles northeast of the Project Site. The Project does not propose any residential uses that may increase the use of existing neighborhood and regional parks or other recreational facilities in the vicinity. The Project would include additional employment during construction. However, the employees would only be present during the construction phase. As discussed in the previous section, the Project Site would be unmanned and would only require minimum staff for inspection and maintenance on a monthly or bimonthly basis. Employees would be traveling from an existing area to the Project and therefore, would not require expansion of the RV Park or other nearby recreation areas. Impacts would be less than significant, and no further analysis is necessary.

## Threshold (b): Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse effect on the environment?

As mentioned above, the Project does not include recreational facilities or require the construction or expansion of recreational facilities. Therefore, the construction or expansion of recreational facilities would not have an adverse physical effect on the environment. No impact would occur, and no further analysis is needed.

### 6.5.15 Transportation

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

The Project would not substantially increase driving hazards, as the on-site access road would be used only by maintenance staff and emergency responders in the event of an emergency, and alterations to U.S. Route 95 are not proposed. The on-site access road would accommodate large trucks and vehicles, including fire trucks, per County regulations and would provide a clear line of sight and merging capabilities to U.S. Route 95. Therefore, the Project would not significantly increase hazards due to design features or incompatible uses. Impacts would be less than significant, and no further analysis is required.

#### Threshold (d): Would the Project result in inadequate emergency access?

The Project would not generate traffic volumes that would impede emergency access to the Project Site and would not result in a significant and permanent delay for emergency vehicles accessing U.S. Route 95. The Project would comply with emergency access requirements, per the SBCFPD Fire Code, including turning radius and maneuverability of large emergency vehicles such as fire trucks and ambulances. Therefore, the Project would not result in inadequate emergency access, and impacts would be less than significant. No further analysis is required.

#### 6.5.16 Utilities and Service Systems

# Threshold (a): Would the Project require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or expansion of which could cause significant environmental effects?

The Project involves solar power generation, storage, and transmission to the WAPA transmission system via an overhead or underground gen-tie line. Water would be used during construction for dust suppression; and operational water would be required for routine maintenance, including panel washing up to two times per year. Water needed would be trucked in from off site and stored in storage tanks or sourced by a new service. As discussed in Section 6.5.8, Hydrology and Water Quality, above, water demand during construction is estimated at a total of 10 to 15 acre-feet, which would be trucked in or obtained from a local purveyor and operational use would be estimated to be 1 acre-foot per year. The projected water demands within the MWA service area is estimated to be 148,366 acre-feet per year for 2020 and 170,700 acre-feet per year for 2040, which is an approximate 20,000 acre-feet increase.

Since no habitable structures would be constructed as part of the Project and the panel washing would require minimal water usage, the operational water required for the Project would not require the need for new or expanded water or wastewater facilities. The Project does not require construction or expansion of wastewater treatment facilities as minimal wastewater would be produced during panel washing. No natural gas or telecommunications facilities would be required. According to the U.S. Energy Mapping System, two electric transmission lines and a substation are within the 10-mile radius from the Project Site. One transmission line crosses the eastern portion of the Project Site, while the other transmission line is approximately 2 miles northwest from the Project Site (Azusa Light and Power). The Big River Substation is located approximately 4 miles northeast from the Project Site. The Project would

tie in with the existing WAPA transmission line and would generate more electricity that what would be used. The Project would not interfere with or affect the northwestern transmission line or Big River Substation. Therefore, the Project would not require the construction of new or expanded facilities, and impacts would be less than significant. No further analysis is required.

## Threshold (b): Would the Project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal dry and multiple dry years?

The MWA UWMP provided anticipated acre-feet per year water supplies during single-dry and multi-dry year conditions. The projected average normal year water supplies for 2020 is estimated to be 168,781 acre-feet per year and 178,582 acre-feet per year for 2040. The projected water demand for 2020 is 148,366 acre-feet per year and 170,700 for 2040. As discussed in Section 6.5.8, Hydrology and Water Quality above, the Project's water demand during construction is estimated at a total of 10 to 15 acre-feet, and operational use would be estimated to be 1 acre-foot per year. Because the Project Site would be unmanned, the Project would not require restroom facilities that would result in an increased demand for water supplies. Therefore, the Project would have sufficient water supplies available to serve the Project, and impacts would be less than significant. Impact levels would be less than significant, and no further analysis is required.

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

The Project would be remotely operated with no full-time employees at the Project Site. Therefore, no restroom or septic facilities would be required. Minimal wastewater would be produced as a result of the panel washing for Project maintenance. As such, the Project would not interfere with any wastewater treatment provider's service capacity. Impacts would be less than significant, and no further analysis is required.

# Threshold (d): Would the Project, generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Construction of the Project would result in the generation of various waste materials including soil, vegetation, and sanitation waste resulting from portable toilets. Soil excavated for the Project Site would either be used as fill or disposed of off site at an appropriately licensed waste facility. Sanitation waste (i.e., human-generated waste) would be disposed of according to sanitation waste management practices. In order to satisfy California's green building standards, the 2019 CALGreen Code, the Project would submit a Construction Waste Management Plan (CWMP) to the County with the submission of the building permit. Part 1 of the CWMP would estimate the tonnage to be disposed and diverted during construction and plan where the materials would end up before the Project begins. Part 2 would show the actual tonnage amount of the waste materials generated from the Project through receipts from recycling facilities, landfills, or a reuse certification. In addition, the plan would include methods to meet Assembly Bill (AB) 341's 75 percent recycling goal for the State of California to reduce GHG emissions. During operations, the Project would be unmanned and is expected to generate minimal solid waste that would be sent to a publicly owned permitted landfill/disposal site. The County has nine publicly owned permitted landfill/disposal site.

- Municipal: California Street Sanitary Landfill;
- County: Barstow, Colton, Landers, Mid-Valley, San Timoteo, and Victorville;
- Federal: Fort Irwin and 29 Palms U.S. Marine Corps Base.

According to the Countywide Integrated Waste Management Plan published in 2016, the County landfill system has permitted refuse capacity in excess of 15 years (2031). Expansion of the Barstow, Landers, and Victorville landfills dramatically increased the capacity for the Desert Region of the County within the past decade. Therefore, existing permitted solid waste capacity in the County is sufficient should future needs for solid waste disposal ever arise. The Project would not impair the attainment of solid waste reduction goals as minimal solid waste is currently expected. Impacts would be less than significant, and do not require further analysis.

## Threshold (e): Would the Project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

As previously mentioned, Project construction would result in the generation of waste materials such as soil, vegetation, and sanitation waste resulting from portable toilets, although all waste would be disposed of off-site at an appropriately licensed waste facility using BMPs. The Project would require preparation of a CWMP outlining how contractors plan to dispose of solid waste and how much waste is actively being disposed, recycled, or reused during construction. The Project would also be required to comply with AB 341 which requires a 75 percent diversion of construction materials. During operations, the Project would be unmanned and would generate minimal solid waste. Additionally, the County landfill system has permitted refuse capacity in excess of 15 years (2031). The Project would deposit all solid waste at a permitted solid waste facility and, therefore, would comply with federal, State, and local statutes and regulations related to solid waste. Impacts would be less than significant, and do not require further analysis.

### 6.5.17 Wildfire

# Threshold (a): Would the Project, if located in or near state responsibility areas or lands classified as very high fire hazard severity zones, substantially impair an adopted emergency response plan or emergency evacuation plan?

According to Fire Hazards Severity Zone (FHSZ) maps produced by CALFIRE, the Project Site is not located within an area prone to wildfire. Most of the eastern side of the County is considered to have low or negligible wildfire risk, with the closest area with a moderate to severe risk located approximately 100 miles west of the Project Site. The County General Plan's Hazards Overlay map for the southeast portion of the County shows no areas within the Fire Safety Overlay District boundary.

The County Emergency Operations Plan identifies wildfire risks and provides direction for wildfire mitigation efforts in the planning area. The Project would not prevent the execution of these mitigation efforts, and the Project would be designed to conform with State law and local regulations and in coordination with the SBCFPD. The Project would comply with emergency access requirements, per Section 503 of the SBCFPD Fire Code, including turning radius and maneuverability for large emergency vehicles such as fire trucks and ambulances. Fire access roads would meet the requirements as stated by the Fire District. Further, the Project would be subject to the Public Safety Services Impact Fee of the County's Solar Ordinance (Development Code Section 84.29.040(c)) to ensure that the Project would not affect fire performance objectives.

Equipment onsite such as transformers, capacitors, electric transmission lines, substations, vehicles, and gas- or electric-powered small hand tools may be potential sources of ignition during construction, operation, and maintenance. Nonetheless, the Project will be required to comply with the SBCFPD Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code. These regulations implement state-of-the-art development and performance standards that ensure the safe installation, operations, and maintenance of utility scale BESS. The Project would also implement fire and safety features at the Module Level, BESS Container Level, Site Level, and Operational Level all of which are detailed in Section 6.5.13, Public Services, Threshold a.i.

Compliance with the SBCFPD Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code, as well as inclusion of the Project's fire and safety features, would not impair the execution of an adopted emergency response plan or emergency evacuation plan. Impacts would therefore be less than significant, and no further analysis is required.

- Threshold (b): Would the Project, if located in or near state responsibility areas or lands classified as very high fire hazard severity zones, due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?
- Threshold (c): Would the Project, if located in or near state responsibility areas or lands classified as very high fire hazard severity zones, require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

As mentioned above, the FHSZ maps produced by CALFIRE do not identify the Project Site as an area prone to wildfire. The closest area to the Project Site with moderate to severe fire risk is approximately 100 miles west and the County General Plan's Hazards Overlay map for the southeast portion of the County shows no areas within the Fire Safety Overlay District boundary.

The Project Site does not contain any steep slopes and contour lines. The Project Site generally slopes downward toward the southeast, with elevations at or around approximately 500 feet above mean sea level. The County however experiences Santa Ana winds, which can pose a fire hazard. Additionally, equipment on-site such as transformers, capacitors, electric transmission lines, substations, vehicles, and gas- or electric-powered small hand tools may be potential sources of ignition during construction, operation, and maintenance. To reduce the potential for a fire event, the Project will be required to comply with the SBCFPD Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code. These regulations implement state-of-the-art development and performance standards that ensure the safe installation, operations, and maintenance of utility scale BESS. The Project would also implement fire and safety features at the Module Level, BESS Container Level, Site Level, and Operational Level all of which are detailed in Section 6.5.13, Public Services, Threshold a.i.

Compliance with the SBCFPD Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code, as well as inclusion of the Project's fire and safety features, would prevent the Project from exacerbating wildfire risks and releasing pollutant concentrations. Impacts would therefore be less than significant, and no further analysis is required.

Threshold (d): Would the Project, if located in or near state responsibility areas or lands classified as very high fire hazard severity zones, expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability or drainage changes?

The Project Site topography is relatively flat but slopes gently toward the southeast. The Project Site is in an extremely rural area with sparse residences and is not located within an area prone to wildfire. The potential for landslides at the Project Site is low due existing flat topography of the Project Site that would be maintained. Therefore, impacts from downslope or downstream flooding or landslides as a result of runoff, post-fire slope instability, or drainage changes would be less than significant, and no further analysis is required.

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### **CHAPTER 9 – ACRONYMS AND ABBREVIATIONS**

Term	Definition
AAM	Annual Arithmetic Mean
AB	Assembly Bill
AC	Alternating Current
АСНР	Advisory Council on Historic Preservation
ADT	Annual Daily Traffic
AF	Acre-Feet
ALUC	Airport Land Use Commission
APN	Assessor Parcel Number
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
ASTM	American Society for Testing and Materials
BESS	Battery Energy Storage System
BLM	Bureau of Land Management
B.P.	Before Present
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFE	Corporate Average Fuel Economy
CAISO	California Independent Service Operator
CALFIRE	California Department of Forestry and Fire Protection
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
САР	Climate Action Plan
CARB	California Air Resources Board
CBC	California Building Code
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CF <sub>4</sub>	Tetrafluoromethane
CFR	Code of Federal Regulations
CGS	California Geological Survey
CH <sub>4</sub>	Methane
СНР	California Highway Patrol
CIP	Capital Improvement Plan

СМР	Congestion Management Program
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalence Levels
CNPS	California Native Plant Society
CNPSEI	California Native Plan Society's Electronic Inventory
CNRA	California Natural Resources Agency
СО	Carbon Monoxide
CO <sub>2</sub>	Carbon Dioxide
County	San Bernardino County
СР	Cultural Resources Preservation
CR	Commercial Retail
CRHR	California Register of Historic Resources
CRPR	California Rare Plant Rank
СТМР	Construction Traffic Management Plan
СТР	Countywide Transportation Plan
CUP	Conditional Use Permit
CUPA	Certified Unified Program Agencies
CWA	Clean Water Act
CWMP	Construction Waste Management Plan
DC	Direct Current
DEIR or Draft EIR	Draft Environmental Impact Report
DOC	California Department of Conservation
DOT	Department of Transportation
DPM	Diesel Particulate Matter
DPR	Department of Parks and Recreation
DRECP	Desert Renewable Energy Conservation Plan
DSLR	Digital Single-Lens Reflex
DTC	Desert Training Center
DTSC	Department of Toxic Substances Control
DWR	California Department of Water Resources
EIA	Environmental Impact Assessment
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EMFAC	Emission Factor Model
EO	Executive Order
EPA or USEPA	United States Environmental Protection Agency
ES	Executive Summary
ESA	Environmental Site Assessment

FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FHSZ	Fire Hazard Severity Zone
FHWA	Federal Highway Administration
FMEA	Failure Mode and Effects Analysis
FP	Fully Protected
FR	Federal Register
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
GCC	Global Climate Change
GCP	General Conservation Plan
GHG	Greenhouse Gas
GIS	Geographic Information System
GPS	Global Positioning Systems
GWP	Global Warming Potential
НСМ	Highway Capacity Manual
НСР	Habitat Conservation Plan
HMD	San Bernardino County Fire Department's Hazardous Materials Division
HUC	Hydrologic Unit Code
HVAC	Heating, Ventilation, and Air Conditioning
HWCL	Hazardous Waste Control Law
HWY	United States Highway
IBC	International Building Code
IPCC	Intergovernmental Panel on Climate Change
IS	Initial Study
ITP	Incidental Take Permit
IWMB	Integrated Waste Management Board
КОР	Key Observation Point
LCFS	Low Carbon Fuel Standard
Ldn	Day-Night Average Sound Level
LED	Light-Emitting Diode
LLG	Linscott, Law & Greenspan, Engineers
LOS	Level of Service
MBTA	Migratory Bird Treaty Act
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MERV	Minimum Efficiency Reporting Values

MLD	Most Likely Descendant
MMTCO <sub>2</sub> e	Metric Tons of Carbon Dioxide Equivalent
MPH	Miles per Hour
MPO	Metropolitan Planning Organization
MRZ	Mineral Resource Zone
MT	Metric Ton
MVA	Megavolt-Amperes
MW	Megawatt
MW-AC	Megawatts of Alternating Current
MWh	Megawatt-hour
MWA	Mojave Water Agency
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NAHC	Native American Heritage Commission
NASA	National Aeronautics and Space Administration
NCCP	Natural Community Conservation Planning
ND	No Data
NDCAG	North Desert Communities Action Guide
NEHRPA	National Earthquake Hazards Reduction Program
NEMA	National Electric Manufactures Association
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
N <sub>2</sub> O	Nitrous Oxide
NO	Nitric Oxide or Nitrogen Monoxide
NO <sub>2</sub>	Nitrogen Dioxide
NOx	Nitrogen Oxides
NOAA	National Oceanic and Atmospheric Administration
NOI	Notices of Intent
NOP	Notice of Preparation
NPDES	National Pollutant Discharge Elimination System
NPPA	Native Plant Protection Act
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NW	Northwest
NWI	National Wetlands Inventory
O <sub>3</sub>	Ozone
OEHHA	Office of Environmental Health Hazard Assessment

OHV	Off-Highway Vehicle
OHWM	Ordinary High-Water Mark
OITC	Outdoor-Indoor Transmission Class
ONAC	Federal Office of Noise Abatement and Control
ONC	California Department of Health Services Office of Noise Control
OPR	Office of Planning and Research
OSHA	Occupational Safety and Health Administration
PCE	Passenger Car Equivalent
PCS	Power Conversion Stations
PFC	Perfluorochemicals
PM	Particulate Matter
PM2.5	Particulate Matter with diameters equal to or less than 2.5 micrometers
PM10	Particulate Matter with diameters equal to or less than 10 micrometers
ppb	Parts per Billion
ppm	Parts per Million
Ppt	Parts per Trillion
PPV	Peak Particle Velocity
PRC	Public Resources Code
PRMMP	Paleontological Resources Monitoring and Mitigation Plan
PV	Photovoltaic
Q	Younger Alluvium
Qoa	Older Alluvium
RC	Resource Conservation Zone
RCRA	Resource Conservation and Recovery Act
REA	Risk/Exposure Assessment
RGHGRP	Regional Greenhouse Gas Reduction Plan
ROW	Right-of-Way
RPS	Renewable Portfolio Standards
RR	Regulatory Requirements
RTP	Regional Transportation Plan
RV	Recreational Vehicle
RWQCB	Regional Water Quality Control Board
SANBAG	San Bernardino Associated Governments
SB	Senate Bill
SBCFD	San Bernardino County Fire Department
SBCFPD	San Bernardino County Fire Protection District
SBCOG	San Bernardino Council of Governments
SBCTA	San Bernardino County Transportation Authority

SBFPD	San Bernardino County Fire Department
SCADA	Supervisory Control and Data Acquisition System
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCS	Sustainable Communities Strategy
SDS	Safety Data Sheet
SEIR	Subsequent Environmental Impact Report
SF <sub>6</sub>	Sulfur Hexafluoride
SHPO	State Historic Preservation Office
SIP	State Implementation Plan
SLCP	Short-Lived Climate Pollutant
SLF	Sacred Lands File
SO <sub>2</sub>	Sulfur Dioxide
SR	State Route
SSC	California State Species of Special Concern
STC	Sound Transmission Class
SVP	Society of Vertebrate Paleontology
SW	Southwest
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
ТАС	Toxic Air Contaminant
TISG	Transportation Impact Study Guidelines
TNW	Traditional Navigable Water
ТРА	Transit Priority Area
UBC	Uniform Building Code
UMTA	Urban Mass Transit Administration
UNFCCC	United Nations' Framework Convention on Climate Change
US	United States of America
USACE	United States Army Corps of Engineers
USC	United States Code
USDA	United States Department of Agriculture
USDOT	United States Department of Transportation
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
USPS	United States Postal Service
UST	Underground Storage Tank

UV	Ultraviolet Radiation
UWMP	Urban Water Management Plan
VHFSZ	Very High Fire Severity Zone
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound
WAPA	Western Area Power Administration
WDR	Waste Discharge Report
WEAP	Worker Environmental Awareness Program
WOUS	Waters of The United States
WRCC	Western Regional Climate Center
ZEV	Zero Emission Vehicle
°C	Degrees Celsius
μg/m <sup>3</sup>	Micrograms per cubic meter

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## **EXHIBIT B**

## **Final Environmental Impact Report**

## **VIDAL ENERGY PROJECT**

## FINAL ENVIRONMENTAL IMPACT REPORT

SCH# 2022030713

Lead Agency:



San Bernardino County, Land Use Services Department 385 N. Arrowhead Avenue, First Floor San Bernardino, CA 92415-0187 Contact: Jim Morrissey, Planner

> Prepared by: Kimley & Horn Kimley-Horn and Associates 660 S. Figueroa Street, Suite 2050 Los Angeles, CA 90017 (213) 261-4040

> > DECEMBER 11, 2023

# **VIDAL ENERGY PROJECT**

## FINAL ENVIRONMENTAL IMPACT REPORT

SCH# 2022030713



San Bernardino County 385 N. Arrowhead Avenue, First Floor San Bernardino, CA 92415

Prepared by: **Kimley »Horn** 

Kimley-Horn and Associates 660 S. Figueroa Street, Suite 2050 Los Angeles, CA 90017 (213) 261-4040

DECEMBER 11, 2023
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# CHAPTER 1 – INTRODUCTION

# 1.1 PURPOSE OF THE FINAL ENVIRONMENTAL IMPACT REPORT

The County of San Bernardino (County), as the Lead Agency under the California Environmental Quality Act (CEQA), has prepared this Final Environmental Impact Report (Final EIR) for the Vidal Energy Project (Project). This document, in conjunction with the Draft Environmental Impact Report (Draft EIR), comprise the Final EIR.

As described in CEQA Guidelines Sections 15088, 15089, 15090 and 15132, the Lead Agency must evaluate comments received on the Draft EIR and prepare written responses and consider the information contained in a Final EIR before approving a project. Pursuant to CEQA Guidelines Section 15132, a Final EIR consists of: (a) the Draft EIR or a revision of the Draft; (b) comments and recommendations received on the Draft EIR either verbatim or in summary; (c) a list of persons, organizations, and public agencies commenting on the Draft EIR; (d) the responses of the Lead Agency to significant environmental points raised in the review and consultation process; and (e) any other information added by the Lead Agency.

# **1.2 PROJECT SUMMARY**

CDH Vidal LLC (CORE) plans to construct and operate an approximately 1,090-acre photovoltaic (PV) and battery energy storage system (BESS) facility to generate renewable energy in Vidal, San Bernardino County (the Project). The Project will provide 160 megawatts of alternating current (MW-AC) of renewable energy and would be supported by the existing, adjacent Western Area Power Administration (WAPA) 161 kilovolt (kV) overhead transmission corridor. The facility would include the construction of one onsite substation facility that would collect and convert the power generated onsite for transmission via an overhead or underground line to the WAPA transmission system and interconnection location. Upgrades associated with WAPA interconnection include replacement of existing fiber optic cable along the 52-mile Headgate Rock-Blythe 161 kV transmission line. The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, a Project substation, and operations and maintenance facilities.

Project construction would begin when all necessary permits are obtained, expected to be 2023. Construction is expected to be complete within 14 months. Approximately 220 workers are anticipated per day with 495 workers during peak periods. Construction workers will commute to the site, and no workers will be housed on site.

### **1.3 OVERVIEW OF THE CEQA PUBLIC REVIEW PROCESS FOR THE DRAFT EIR**

In compliance with the CEQA Guidelines, the County, as the Lead Agency for the Project, has provided opportunities for the public to participate in the environmental review process. As described below, throughout the environmental review process, an effort was made to inform, contact and solicit input from the public and various State, regional, and local government agencies and other interested parties on the Project.

#### Notice of Preparation

In accordance with CEQA Guidelines Section 15082, a Notice of Preparation (NOP) was distributed to initiate the County's CEQA review process for the Project, identify and seek public input for the Project's potential environmental effects, and identify a date for the Project's public scoping meeting. The NOP was distributed on March 29, 2022, to State, regional, local government agencies, and interested parties and identified a public review period for the NOP through April 27, 2022, in compliance with the State's mandatory 30-day public review period.

#### Scoping Meeting

A virtual scoping meeting was held to discuss the Project on April 12, 2022, from 6:00 p.m. to 8:00 p.m. via Zoom. A presentation was provided, including an overview of the Project and the CEQA process. Following the presentation, participants were encouraged to provide oral or written comments to aid the County in refining the scope of issues to be addressed in the EIR. No individuals from the public attended the scoping meeting. One comment letter was received during the public review period from the Colorado River Indian Tribes. Three comment letters were received after the public review period from the Desert Tortoise Council, Morongo Band of Mission Indians, and the California Department of Fish and Wildlife (Region 6). Key issues of environmental concern expressed by commenters include:

- Impacts to the desert tortoise
- Impacts to cultural and tribal cultural resources

The NOP, Scoping Meeting materials, and received comments are contained in Appendix A of the Draft EIR.

#### Draft EIR

In accordance with the provision of CEQA Guidelines Sections 15085(a) and 15087(a), the County, serving as the Lead Agency: (1) prepared and transmitted a Notice of Completion (NOC) to the State Clearinghouse; (2) published a Notice of Availability (NOA) of a Draft EIR which indicated that the Draft EIR was available for public review at the County's Planning Division Counter; (3) provided a copy of the NOA and Draft EIR to the Jerry Lewis High Desert Government Center; (4) posted the NOA and the Draft EIR website: https://lus.sbcounty.gov/planningon the County's Planning Division home/environmental/desert-region/; (5) sent a NOA to all property owners within 1,300 feet of the Project Site boundary; (6) sent a NOA to the last known name and address of all organizations and individuals who previously requested such notice in writing or attended public meetings about the Project; and (7) filed the NOA with the County Clerk. The public review period commenced on December 9, 2022, and ended on January 23, 2023, for a total of 46 days.

During the Draft EIR public review period, the County received four (4) comment letters on the Draft EIR from: the California Department of Fish and Wildlife (CDFW), Defenders of Wildlife, the Desert Tortoise Council, and the Colorado River Indian Tribes. All written comments received during the public review

period are presented, and responses are provided in Chapter 2: Comment Letters and Responses to Comments of this Final EIR.<sup>1</sup>

### **1.4 ORGANIZATION OF THE FINAL EIR**

The Final EIR is organized as follows:

- Section 1.0: Introduction. Describes the process and purpose of the Final EIR, provides a summary of the Project, summarizes the Final EIR public review process, and presents the contents of the Final EIR.
- Section 2.0: Responses to Comments. Provides responses to all comments received during the 46-day public review period of the Draft EIR (December 9, 2022 to January 23, 2023) that are related to the contents of the Draft EIR.
- Section 3.0: Corrections and Additions to the Draft EIR. Includes revisions to the Draft EIR that
  represent changes or additions in response to comments received on the Draft EIR. Changes to
  the Draft EIR are shown with strikethrough text for deletions and <u>double underline</u> text for
  additions. The changes do not add significant new information that would affect the analysis or
  conclusions presented in the Draft EIR.
- **Appendices.** Contains appendices as referenced throughout the Final EIR. As requested by the Colorado River Indian Tribes, the comment letters and responses to the comment letters from the Colorado River Indian Tribes are provided in a confidential appendix to be provided only to the Colorado River Indian Tribes and the County of San Bernardino decision makers.

<sup>&</sup>lt;sup>1</sup> As requested by the Colorado River Indian Tribes, the comment letters and responses to the comment letters from the Colorado River Indian Tribes are provided in a confidential appendix to be provided only to the Colorado River Indian Tribes and the County of San Bernardino decision makers.

# **CHAPTER 2 – RESPONSES TO COMMENTS**

CEQA Guidelines Section 15088(a) states that: "The lead agency shall evaluate comments on environmental issues received from persons who reviewed the draft EIR and shall prepare a written response." The written response must address the environmental issue(s) raised and provide a detailed response. Rationale must be provided when specific comments or suggestions (e.g., additional mitigation measures) are not accepted. In addition, the written response must be a good faith and reasoned analysis. As long as a good faith effort at full disclosure is made in the EIR (CEQA Guidelines Section 15204), lead agencies need only to respond to significant environmental issues associated with the project and do not need to provide all the information requested by commenters.

CEQA Guidelines Section 15204 recommends that commenters provide detailed comments that focus on the sufficiency of the Draft EIR in identifying and analyzing the possible impacts on the environment and ways in which the significant effects of the project might be avoided or mitigated. CEQA Guidelines Section 15204 also notes that commenters should provide an explanation and evidence supporting their comments. Pursuant to CEQA Guidelines Section 15064, an effect shall not be considered significant in the absence of substantial evidence.

CEQA Guidelines Section 15088 also recommends that where the response to comments results in revisions to the Draft EIR, those revisions should be noted as a revision to the Draft EIR or in a separate section of the Final EIR. Revisions have been made to the Draft EIR in response to comments received on the Draft EIR. These revisions are provided in **Chapter 3: Corrections and Additions to the Draft EIR**.

 Table 2-1: Comments Received on the Vidal Energy Project Draft EIR provides a list of the comment

 letters received and the corresponding issues that were raised in response to the Draft EIR.

Comment Letter	Commenting Agency or Organization	Date of Comment
A	California Department of Fish and Wildlife	January 20, 2023
В	Defenders of Wildlife	January 23, 2023
C1	Desert Tortoise Council	January 23, 2023
C2	Desert Tortoise Council	April 30, 2022
		In Response to NOP
D1	Colorado River Indian Tribes	January 23, 2023
D2	Colorado River Indian Tribes	October 30, 2023

Table 2-1: Comments Received on the Vidal Energy Project Draft EIR

The individual letters received during the public comment period, and as listed in Table 2-1, are each assigned a number in chronological order, as indicated in Table 2-1. Each comment that requires a response is also assigned a number. For example, the first comment letter received was from the California Department of Fish and Wildlife (CDFW). Therefore, this is Comment Letter A, and the responses to each comment are correspondingly numbered (e.g., Response to Comment A-1, A-2, etc.). A copy of each comment letter is provided in Appendix A, Original Comment Letters, of this Final EIR. As requested by the Colorado River Indian Tribes, the comment letters and responses to the comment letters from the Colorado River Indian Tribes (Comment Letters D1 and D2) are provided in a confidential appendix to be provided only to the Colorado River Indian Tribes and the County of San Bernardino decision makers.

# LETTER A

Alisa Ellsworth Environmental Program Manager State of California – Natural Resources Agency Department of Fish and Wildlife Inland Deserts Region 3602 Inland Empire Boulevard, Suite C-220 Ontario, CA 91764 Letter dated January 20, 2023

# Comment A-1

The California Department of Fish and Wildlife (CDFW) received a Draft Environmental Impact Report (DEIR) from the County of San Bernardino (Lead Agency) for the Project pursuant the California Environmental Quality Act (CEQA) and CEQA Guidelines.<sup>1</sup>

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

Footnote 1: CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

### **Response to Comment A-1**

The commenter acknowledges receipt of the Draft Environmental Impact Report (EIR) and CDFW's opportunity to provide comments. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

### Comment A-2

#### CDFW ROLE

CDFW is California's **Trustee Agency** for fish and wildlife resources, and holds those resources in trust by statute for all the people of the State (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a).) CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species. (Id., § 1802.) Similarly for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

CDFW is also submitting comments as a **Responsible Agency** under CEQA (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381). CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority. (Fish & G. Code, § 1600 et seq.) Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species

protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), the Project proponent may seek related take authorization as provided by the Fish and Game Code.

### **Response to Comment A-2**

The commenter accurately notes that they are a Trustee Agency per CEQA Guidelines Section 15386 (a) and Responsible Agency per CEQA Guidelines Section 15381. This is accurately represented on page 2-9 of Section 2.0: Project Description of the Draft EIR. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

# Comment A-3

#### PROJECT DESCRIPTION SUMMARY

**Proponent:** CDH Vidal, LLC (CORE) (Applicant)

**Objective:** The Project has the following objectives:

- Utilize property within the County to site photovoltaic (PV) solar power-generating facilities and energy storage near existing utility infrastructure.
- Support California's efforts to reduce greenhouse gas (GHG) emissions consistent with the timeline established by the California Global Warming Solutions Act under California AB 32, as amended by SB 32, which requires that Statewide GHG emissions are reduced to at least 40 percent below the Statewide GHG emissions limit by 2030.
- Support California's Renewable Portfolio Standard (RPS) Program consistent with the timeline established by SB 100.
- Develop an economically feasible and commercially financeable power-generating facility and energy storage system.
- Provide solar-generated electricity to the California Independent System Operator (CAISO) grid.
- Promote the County's role as the state's leading producer of renewable energy.
- Provide green jobs to the County and the state of California.
- Site and design the Project in an environmentally responsible manner consistent with current County guidelines.

**Location:** The Project is located approximately 2.5 miles southeast of Vidal, an unincorporated area of San Bernardino County; east of U.S. Route 95, north of the Riverside County border, and west of the Colorado River.

**Timeframe:** Project construction is anticipated to begin in 2023 and is expected to be complete within approximately 14 months. Once construction is complete, the Project has an anticipated operational life of up to 35 years, after which CORE may choose to update site technology and recommission, or decommission, the facility and remove the systems and their components.

**Description:** The Project includes the construction and operation of an approximately 1,090-acre solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility. The Project will generate up to 160 megawatts (MW) of alternating current of solar power and include up to 640 megawatt hours (MWh) of energy storage capacity. The Project would be supported by the existing Western Area Power Administration (WAPA) 161 kilovolt (kV) overhead transmission corridor. The facility would include the construction of one onsite substation facility that would collect and convert the power generated onsite for transmission via an overhead or underground line to the WAPA transmission system and interconnection location. The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, a Project substation, and operations and maintenance facilities.

### **Response to Comment A-3**

The commenter describes the Project including the Project proponent, objectives, location, timeframe, and description. The commenters' understanding of the project background is accurate as described in Section 2.0: Project Description of the Draft EIR. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

### Comment A-4

#### COMMENTS AND RECOMMENDATIONS

CDFW offers the comments and recommendations below to assist the Lead Agency in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources. Editorial comments or other suggestions may also be included to improve the document.

### **Response to Comment A-4**

The commenter introduces their comments and notes that the purpose of their comments is to assist the lead agency with adequately mitigating for Project impacts. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

### Comment A-5

#### Assessment of Impacts to Biological Resources

The DEIR bases its analysis of impacts to biological resources on the Biological Resources Report (Appendix D of the DEIR) prepared by Chambers Group, Inc. dated December 2020. A reconnaissance-level survey was conducted in April 2020; focused plant survey in May 2020; and desert tortoise and burrowing owl focused survey in May 2020, making these surveys nearly three years old. Note that CDFW generally considers field assessments for wildlife to be valid for a one-year period. Further, the report indicates that the focused desert tortoise and burrowing owl surveys were conducted concurrently. CDFW generally does not support the approach of the same personnel concurrently conducting surveys for multiple species, as protocol requirements vary and some sign may be missed.

# **Response to Comment A-5**

The commenter notes that CDFW generally considers field assessment surveys for wildlife to be valid for a one-year period and that the last reconnaissance-level surveys (as detailed in Appendix D of the Draft EIR) were conducted in 2020. The reconnaissance-level survey, focused plant survey, and desert tortoise and burrowing owl focused survey were completed to inform the Biological Resources Report and the Draft EIR. As detailed in Mitigation Measure BIO-1, a biological monitor shall, prior to initiation of ground disturbing activities, demark the limits of disturbance boundaries. The biological monitor shall also be present to conduct pre-construction sweeps and inspect compliance with project protection measures. Additionally, as part of Mitigation Measure BIO-4, BIO-6, BIO-7, and BIO-12 (as amended as part of this Final EIR), pre-construction surveys (e.g., nesting birds, burrowing owl, and desert tortoise) shall be conducted to determine the presence of the respective species. Therefore, pre-construction surveys shall be conducted accordingly.

The commenter further notes that CDFW does not support concurrently conducting surveys for multiple species. Burrowing Owl (*Athene cunicularia*) and Desert Tortoise (*Gopherus agassizii*) were surveyed concurrently as the survey protocol requirements are similar for both species. Both surveys are conducted within similar suitable habitat and look for the presence of burrows and signs of species activity (e.g., scat). As outlined in Mitigation Measure BIO-6, a pre-construction survey for Burrowing Owl will be conducted prior to ground disturbing activities.

Regarding Desert Tortoise, as stated on page 4.3-15 of **Section 4.3: Biological Resources** of the Draft EIR, no live desert tortoises, active desert tortoise burrows, or other desert tortoise sign were identified in the Survey Area during the desert tortoise surveys. One potential desert tortoise burrow was observed in the survey buffer near the southwest corner of the Project Site. However, the burrow was filled with spider webs and appeared to have been in disuse for some time. Therefore, the potential for occurrence of a desert tortoise is unlikely. As stated in Comment A-14, the CDFW recommends conducting updated protocol surveys for desert tortoise. While the CDFW acknowledges that Mitigation Measure BIO-5 in the Draft EIR addresses sensitive species in general, the County recommends the addition of Mitigation Measure BIO-5 and to be implemented in the Mitigation Monitoring and Reporting Program (MMRP). With adherence to these mitigation measures, future surveys will be conducted in a manner acceptable to CDFW. Additionally, a Raven Management Plan shall be implemented as part of Mitigation Measure BIO-12 to offset potential predatorial impacts from ravens, which are known predators of desert tortoises, and to decrease potential threats to desert tortoise recovery. Mitigation Measure BIO-12 is added as follows and is reflected in **Chapter 3: Corrections and Additions to the Draft EIR**:

**Mitigation Measure BIO-12**: Pre-construction surveys for desert tortoise (*Gopherus agassizii*) shall be conducted by a qualified biologist no more than 30 days prior to construction activities. If desert tortoise are observed within the Project Site, the Applicant shall consult with CDFW and USFWS to determine compliance with State (CESA) and federal (FESA) law. Additionally, if desert tortoise are determined to be present, a Raven Management Plan shall be prepared, approved by CDFW and USFWS, and implemented to offset potential predatorial impacts to tortoises.

As discussed in **Chapter 3: Corrections and Additions to the Draft EIR**, under CEQA Guidelines Section 15088.5, "[re]circulation is not required where the new information added to the EIR merely clarifies or amplifies or makes insignificant modifications in an adequate EIR." As previously noted, the CDFW acknowledges that Mitigation Measure BIO-5 addresses sensitive species; therefore, Mitigation Measure

BIO-12 would not be considerably different from Mitigation Measure BIO-5 and would clarify and amplify that, in the unlikely event of the discovery of a desert tortoise, the Applicant would require consultation/approval from the CDFW and USFWS for regulatory compliance. Therefore, recirculation would not be required.

### **Comment A-6**

#### **Nesting Birds**

Project implementation could result in the loss of nesting and/or foraging habitat for passerine and raptor species from the removal of desert scrub vegetation onsite. The biggest threat to birds includes habitat loss and the conversion of natural vegetation into commercial, residential and industrial land uses.

It is the Project proponent's responsibility to comply with all applicable laws related to nesting birds and birds of prey. Migratory non-game bird species are protected by international treaty under the federal Migratory Bird Treaty Act (MBTA) of 1918, as amended (16 U.S.C. 703 et. seq.). In addition, sections 3503, 3503.5, and 3513 of the Fish and Game Code also afford protective measures as follows: Section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by FGC or any regulation made pursuant thereto; Section 3503.5 states that it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by FGC or any regulation 3513 states that it is unlawful to take or possess any migratory nongame bird as designated in the MBTA or any part of such migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA.

### **Response to Comment A-6**

The commenter describes the implications of Project construction on nesting birds and cites the protective laws that are related to birds and birds of prey, noting that CDFW's expectation for the Project is to comply with the laws described. As discussed in the Draft EIR and as required by Mitigation Measure BIO-4, and as revised below in Response to Comment A-8 and in the MMRP, the Project requires a qualified biologist conduct a nesting bird survey prior to ground-disturbing activities to comply with CDFW Code 3503, CDFW Code 3503.5, and the MBTA. Further, Mitigation Measure BIO-4 offers protective measures for nesting birds including that vegetation trimming/crushing take place outside of bird breeding season (February 15 to September 15).

### Comment A-7

The final EIR should include specific avoidance and minimization measures to ensure that impacts to nesting birds do not occur. Project-specific avoidance and minimization measures may include, but not be limited to: Project phasing and timing, monitoring of Project-related noise, sound walls, and buffers. The final EIR should also include specific avoidance and minimization measures that will be implemented should a nest be located within the Project site.

### **Response to Comment A-7**

The commenter indicates that the Final EIR should include specific avoidance and minimization measures to ensure no impacts to nesting birds should occur. Please refer to Response to Comment A-6.

# **Comment A-8**

CDFW supports the inclusion of Mitigation Measure BIO-4, with minor edits (in strikethrough and **bold**) in the final EIR to avoid impacts to nesting birds:

Mitigation Measure BIO-4 – Vegetation trimming/crushing shall take place outside the general bird breeding season (February 15 to September 15), to the maximum extent practicable. If this is not possible, Regardless of the time of year, prior to ground-disturbing activities, a qualified biologist shall conduct a nesting bird survey to comply with CDFW Code 3503 and 3503.5 and the Migratory Bird Treaty Act. The survey shall occur no more than 30 three (3) days prior to initiation of proposed Project activities and shall include any potential habitat (including trees, shrubs, the ground, or nearby structures). Any occupied passerine and/or raptor nests occurring within or adjacent to the proposed Project area or the Project's zone of influence (generally 100-300 feet) shall be delineated and a no-disturbance buffer zone (as determined by the avian biologist) shall be established and maintained during Project activities. Additional follow-up surveys may be required by the resource agencies and the County of San Bernardino. If an active nest is identified, an avoidance buffer zone around occupied nests (as determined by the avian biologist) shall be maintained during physical ground-disturbing activities. The buffer zone shall be sufficient in size to prevent impacts to the nest. A qualified biologist shall monitor active nests to determine whether construction activities are disturbing nesting birds or nestlings. If the qualified biologist determines that construction activities pose a disturbance to nesting, construction work shall be stopped in the area of the nest and the no disturbance buffer shall be expanded. Once nesting has ceased and the fledglings are no longer using the nest area as confirmed by a qualified biologist, the buffer may be removed. A nesting bird survey report shall be provided to the County of San Bernardino and CDFW. If an active nest is encountered during construction, construction shall stop immediately until a qualified biologist can determine the status of the nest and when work can proceed without risking violation to state or federal laws.

# **Response to Comment A-8**

The commenter notes their support of Mitigation Measure BIO-4 and requests minor edits. Mitigation Measure BIO-4 is revised as follows and as reflected in **Chapter 3: Corrections and Additions to the Draft EIR**:

**Mitigation Measure BIO-4:** Vegetation trimming/crushing shall take place outside the general bird breeding season (February 15 to September 15), to the maximum extent practical. If this is not possible, Regardless of the time of year, prior to ground-disturbing activities, a qualified biologist shall conduct a nesting bird survey to comply with CDFW Code 3503 and 3503.5 and the Migratory Bird Treaty Act. The survey shall occur no more than 30 three (3) days prior to initiation of proposed project activities, and any and shall include any potential nesting habitat (including trees, shrubs, the ground, or nearby structures). Any occupied passerine and/or raptor nests occurring within or adjacent to the proposed project area or the Project's zone of influence (generally 100-300 feet) shall be delineated and a no-disturbance buffer zone (as determined by the avian biologist) shall be established and maintained during Project activities. Additional follow-up surveys may be required by the resource agencies and the County of San Bernardino. If an active nest is identified, an avoidance buffer zone around occupied nests (as determined by the avian biologist) shall be maintained during physical ground-disturbing activities. The buffer zone shall be sufficient in size to prevent impacts to the nest. A qualified biologist shall monitor active nests to determine whether construction activities are disturbing nesting birds or nestlings.

If a nest shows signs of disturbance as determined by a qualified biologist, adaptive management methods may be used to ensure that the buffer distances are effective and no nests are disturbed. Once nesting has ceased and the fledglings are no longer using the nest area <u>as confirmed by a</u> <u>qualified biologist</u>, the buffer may be removed. A nesting bird survey report shall be provided to the County of San Bernardino <u>and CDFW. If an active nest is encountered during construction</u>, <u>construction shall stop immediately until a qualified biologist can determine the status of the nest</u>, <u>avoidance buffer and when work can proceed without risking violation to State or federal laws</u>.

### **Comment A-9**

#### **Burrowing Owl**

The Project has the potential to adversely affect burrowing owl (Athene cunicularia), a CDFW Species of Special Concern. According to the DEIR, one round of burrowing owl surveys was conducted concurrently with the focused desert tortoise survey over a five-day period from May 11, 2020 through May 15, 2020. CDFW appreciates that surveys were conducted, however, as noted above, CDFW generally does not support the approach of concurrently conducting surveys for different species. Further, while the DEIR states that three potential burrows and sign were observed within the Project site and that impacts to burrowing owl could potentially be significant, it does not clearly identify the extent of suitable habitat within the Project site and therefore CDFW cannot determine the potential extent impacts. In areas where burrowing owl may be present, CDFW recommends that the Lead Agency follow the recommendations and guidelines provided in the Staff Report on Burrowing Owl Mitigation (2012 Staff Report). The 2012 staff report specifies three steps for project impact evaluations: a habitat assessment; surveys; and an impact assessment. As stated in the Staff Report, the three progressive steps are effective in evaluating whether a project will result in impacts to burrowing owl, and the information gained from the steps will inform any subsequent avoidance, minimization, and mitigation measures. Habitat assessments are conducted to evaluate the likelihood that a site supports burrowing owl. Burrowing owl surveys provide information needed to determine the potential effects of proposed projects and activities on burrowing owls, and to avoid take in accordance with Fish and Game Code sections 86, 3503, and 3503.5. Impact assessments evaluate the extent to which burrowing owls and their habitat may be impacted, directly or indirectly, on and within a reasonable distance of the proposed Project activity.

### **Response to Comment A-9**

The commenter describes how the Project has the potential to affect Burrowing Owl and recommends that recommendations and guidelines provided in the 2012 Staff Report are followed which includes a habitat assessment, surveys, and an impact assessment. As detailed in Appendix D of the Draft EIR, protocol-level Burrowing Owl Surveys were conducted in 2020 and although no live Burrowing Owls were observed on site, four burrows with sign were observed within the Survey Area. Additionally, Appendix D of the Draft EIR, which includes the full Biological Resources Report from the survey efforts, and discusses suitable habitat for Burrowing Owls. Nonetheless, Mitigation Measure BIO-6, which has been revised per CDFW's request as shown in Response to Comment A-10, requires a pre-construction Take Avoidance Survey, in accordance with the 2012 Staff Report, for Burrowing Owl prior to the initiating of ground disturbing activities, which would reduce impacts on Burrowing Owl to less than significant.

### Comment A-10

Burrowing owl are susceptible to impacts year-round as their breeding season generally extends from February 1 to August 31 and their overwintering period generally from September 1 to January 31. In

areas where burrowing owl may be present, ground disturbing activities should be avoided to the extent practicable. Solar development may be considered a high level of disturbance and an appropriate buffer should be determined to avoid take of the species. If burrowing owl are found within the Project area during pre-construction surveys or construction activities, and it is not possible to avoid active burrows, passive relocation and mitigation shall be implemented.

CDFW recommends the following edits to Mitigation Measure BIO-6 (in strikethrough and **bold**)

Mitigation Measure BIO-6 – No less than 14 days prior to construction any ground disturbance activities, a burrowing owl Take Avoidance Survey shall be conducted by a qualified biologist in accordance with the *Staff Report on Burrowing Owl Mitigation* (California Department of Fish and Game 2012). The survey shall be conducted no less than 14 days prior to initiating ground disturbance activities. If burrowing owls are determined to be present where Project activities will occur, minimization and avoidance measures shall be required including but not limited to a final survey within 24 hours prior to ground disturbance. site-specific non-disturbance buffer zones shall be established by the qualified biologist based on monitoring and assessments of the Project's effects on the burrowing owls. If it is not possible to avoid active burrows during the nonbreeding season, passive relocation shall be implemented.

### **Response to Comment A-10**

The commenter describes the impact that solar development may have on Burrowing Owls and recommends edits to Mitigation Measure BIO-6 to include the passive relocation of Burrowing Owls if they are found within the Project Site during pre-construction surveys. Mitigation Measure BIO-6 is revised as follows and as reflected in **Chapter 3: Corrections and Additions to the Draft EIR**:

**Mitigation Measure BIO-6:** <u>A Burrowing Owl Mitigation and Monitoring Plan shall be developed</u> and submitted to CDFW for review 60 days prior to the start of ground disturbing activities. No less than 14 days Pprior to construction any ground disturbance activities, a burrowing owl (<u>Athene cunicularia</u>) Take Avoidance Survey shall be conducted by a qualified biologist in accordance with the California Department of Fish and Wildlife 2012 Staff Report on Burrowing Owl Mitigation. The survey shall be conducted no less than 14 days prior to initiating ground disturbance activities. If burrowing owls are determined to be present where Project activities will occur, minimization and avoidance measures shall be required including but not limited to a final survey within 24 hours prior to ground disturbance. site-specific non-disturbance buffer zones shall be established by the qualified biologist based on monitoring and assessments of the Project's effects on the burrowing owls. If it is not possible to avoid active burrows during the nonbreeding season, passive relocation shall be implemented once approved through coordination with CDFW.

### Comment A-11

CDFW further recommends that the Project proponent prepare a Burrowing Owl Mitigation and Monitoring Plan to be submitted to CDFW for review 60 days prior to the start of ground disturbing activities.

### **Response to Comment A-11**

The commenter recommends that a Burrowing Owl Mitigation and Monitoring Plan be developed and submitted to CDFW for review 60 days prior to the start of ground disturbing activities. Mitigation

Measure BIO-6 has been revised accordingly in Response to Comment A-10 and as reflected in **Chapter 3: Corrections and Additions to the Draft EIR**.

### Comment A-12

#### **Desert Kit Fox**

Five active desert kit fox (*Vulpes macrotis arsipus*) burrow/burrow complexes were identified on the Project site during the desert tortoise and burrowing owl surveys. While the DEIR states that "..desert kit fox is a non-sensitive species...", please note that kit fox is in fact protected as a fur-bearing mammal pursuant to Title 14 of the California Code of Regulations section 460 and may not be taken (including trapping and handling) at any time. Because desert kit fox has high fidelity to natal dens, it is crucial to adequately assess whether desert kit fox is present on the Project site well in advance of commencing Project activities.

CDFW recommends the following edits to Mitigation Measure BIO-7 (in strikethrough and **bold**):

Mitigation Measure BIO-7 – Prior to commencing Project activities, a qualified biologist shall conduct a focused survey for desert kit fox, including assessment of all burrows in the Project area. If potential burrows are located, they shall be monitored by the qualified biologist. If any burrow/burrow complex is determined to house desert kit fox and the burrow/burrow complex is unavoidable, exclusionary devices (e.g., one-way doors) should shall be fitted on the active burrow openings, and once the burrow has been confirmed vacant as determined by the qualified biologist and in consultation with CDFW, the burrow should shall be carefully excavated to prevent re-entry/re-use of the burrow. These exclusion/excavation activities should shall only occur during the non-breeding season (July 2- January 15). If construction will occur during the breeding season, any active burrow/burrow complex that is unavoidable shall be provided a 500-foot no work buffer until the end of breeding season (July 1) or until the burrow has been determined to be inactive (and does not contain pups) by the qualified biologist.

### **Response to Comment A-12**

The commenter summarizes the results of the Desert Kit Fox (*Vulpes macrotis*) surveys that were previously conducted and notes that Desert Kit Fox is protected as a fur-bearing mammal pursuant to Title 14 of the California Code of Regulations Section 460. CDFW recommends edits to Mitigation Measure BIO-7, which addresses the Desert Kit Fox. Mitigation Measure BIO-7 is revised as follows and as reflected in **Chapter 3: Corrections and Additions to the Draft EIR**:

**Mitigation Measure BIO-7:** <u>A Desert Kit Fox Monitoring and Mitigation Plan shall be prepared and</u> <u>submitted to CDFW for review 60 days prior to the start of ground disturbing activities. Prior to</u> <u>commencing ground-disturbing activities, a qualified biologist shall conduct a focused survey for</u> <u>desert kit fox (*Vulpes macrotis*), including assessment of all burrows in the Project area. If <u>potential burrows are located, they shall be monitored by the qualified biologist.</u> If any burrow/burrow complex is determined to house desert kit fox and the burrow/burrow complex is unavoidable, exclusionary devices (e.g., one-way doors) <del>should <u>shall</u> be fitted on the active burrow openings, and once the burrow has been confirmed vacant <u>as determined by the qualified biologist and in consultation with CDFW</u>, the burrow <del>should <u>shall</u> be carefully excavated to prevent re-entry/re-use of the burrow. These exclusion/excavation activities <del>should <u>shall</u> only</del> occur during the non-breeding season (July 2 to January 15). If construction will occur during the</u></del></del> breeding season, any active burrow/burrow complex that is unavoidable should shall be provided a 500-foot no work buffer until the end of breeding season (July 1) or until the burrow has been determined to be inactive (and does not contain pups) by the qualified biologist.

### Comment A-13

CDFW further recommends that the Project proponent prepare a Desert Kit Fox Monitoring and Mitigation Plan to be submitted to CDFW for review 60 days prior to the start of ground disturbing activities. The Plan should include a summary of desert kit fox occurrence in the Project area, and avoidance and minimization measures, including but not limited to pre-construction surveys, active den and burrow monitoring, excavation of inactive or unoccupied burrows, and details on passive relocation from active, non-natal dens and burrows.

### **Response to Comment A-13**

The commenter recommends that a Desert Kit Fox Monitoring and Mitigation Plan be prepared and submitted to CDFW for review 60 days prior to the start of ground disturbing activities. Mitigation Measure BIO-7 has been revised accordingly in Response to Comment A-12 and as reflected in **Chapter 3: Corrections and Additions to the Draft EIR**.

### Comment A-14

#### **Desert Tortoise**

The desert tortoise (*Gopherus agassizi*) is listed as threatened and a candidate as endangered under the California Endangered Species Act (CESA). CDFW is responsible for ensuring appropriate conservation of fish and wildlife resources including threatened, endangered, and/or candidate plant and animal species, pursuant to (CESA). A CESA Incidental Take Permit (ITP) is issued to conserve, protect, enhance, and restore State-listed CESA species and their habitats. CDFW recommends that a CESA ITP be obtained if the Project has the potential to result in "take" (California Fish and Game Code Section 86 defines "take" as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill") of CESA-listed species. Take of any CESA-listed species is prohibited except as authorized by state law (Fish and G. Code, §§ 2080 and 2085). If the Project, including the Project construction or any Project-related activity during the life of the Project, results in take of CESA-listed species, CDFW recommends that the Project proponent seek appropriate authorization prior to Project implementation through an ITP.

No live desert tortoises, active desert tortoise burrows or other desert tortoise sign were identified during focused surveys, but one potential desert tortoise burrow was observed within the survey buffer near the southwest corner of the Project. While the burrow was filled with spider webs and appeared to have been in disuse, this does not necessarily exclude use or occupation of the Project site by desert tortoise. Also, as noted above, the desert tortoise surveys are nearly three years old and CDFW recommends conducting updated protocol surveys for desert tortoise. The DEIR does not include any desert tortoise-specific mitigation measures, but Mitigation Measure BIO-5 address sensitive species in general, indicating that any sensitive species found will be relocated out of harm's way. Desert tortoise may not be moved or handled in any way without proper permits.

# **Response to Comment A-14**

The commenter describes protection recommendations for the desert tortoise. Although no live desert tortoises or active burrows were encountered on the Project Site during the protocol-level survey, one potential unoccupied burrow was observed within the buffer, which does not necessarily exclude the occupation of the Project Site by desert tortoise. The commenter points out that although Mitigation Measure BIO-5 addresses sensitive species in general, there are no desert tortoise specific mitigation measures. See Response to Comment A-5 for Mitigation Measure BIO-12, which has been added to **Chapter 3: Corrections and Additions to the Draft EIR** and the MMRP.

# Comment A-15

#### Lake and Streambed Alteration Program

The DEIR identifies five drainage systems as well as ephemeral drainages and washes within the Project site subject to CDFW jurisdiction, for a total of 123.85 acres. CDFW appreciates that the Project has been designed to minimize impacts to the largest washes onsite and that the DEIR indicates that impacts to all CDFW jurisdictional resources warrant the need for a 1602 Streambed Alteration Agreement.

Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following: Substantially divert or obstruct the natural flow of any river, stream or lake; Substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or Deposit debris, waste or other materials that could pass into any river, stream or lake. Please note that "any river, stream or lake" includes those that are episodic (i.e., those that are dry for periods of time) as well as those that are perennial (i.e., those that flow year-round). This includes ephemeral streams, desert washes, and watercourses with a subsurface flow. It may also apply to work undertaken within the flood plain of a body of water.

Upon receipt of a complete notification, CDFW determines if the proposed Project activities may substantially adversely affect existing fish and wildlife resources and whether a Lake and Streambed Alteration (LSA) Agreement is required. An LSA Agreement includes measures necessary to protect existing fish and wildlife resources. CDFW may suggest ways to modify your Project that would eliminate or reduce harmful impacts to fish and wildlife resources.

CDFW's issuance of an LSA Agreement is a "project" subject to CEQA (see Pub. Resources Code § 21065). To facilitate issuance of an LSA Agreement, if necessary, the DEIR should fully identify the potential impacts to the lake, stream, or riparian resources, and provide adequate avoidance, mitigation, and monitoring and reporting commitments. Early consultation with CDFW is recommended, since modification of the proposed Project may be required to avoid or reduce impacts to fish and wildlife resources. To obtain a Lake or Streambed Alteration notification package, please go to https://www.wildlife.ca.gov/Conservation/LSA/Forms.

### **Response to Comment A-15**

The commenter summarizes the drainage system and washes within the Project Site and recognizes that the Project has been designed to minimize impacts to washes on site. The commenter also notes that the guidelines for a Fish and Game Code Section 1602 Streambed Alternation Agreement will be followed for any impacts to CDFW jurisdictional resources. As stated on page 4.3-17 of **Section 4.3: Biological** 

**Resources** of the Draft EIR, the Project would implement Mitigation Measures BIO-8 through BIO-11 to reduce impacts on CDFW jurisdictional waters to less than significant.

#### Comment A-16

#### ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).) Accordingly, please report any special status species and natural communities detected during Project surveys to the California Natural Diversity The CNNDB field survey form can be found at the following link: Database (CNDDB). http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/CNDDB\_FieldSurveyForm.pdf. The completed form can be mailed electronically to CNDDB at the following email address: CNDDB@wildlife.ca.gov. The types of information reported to CNDDB can be found the following link: at http://www.dfg.ca.gov/biogeodata/cnddb/plants and animals.asp.

#### **Response to Comment A-16**

This comment describes the CEQA requirement for Project information to be incorporated into a database and that any special status species and natural communities detected during Project surveys be reported to CNDDB. The Project has, and will continue to follow all requirements of CEQA, including uploading documents to the State Clearinghouse (SCH) and the County of San Bernardino's website. This request is noted and has been provided to the Project's biological consultant. The County will require this as part of the Project's Conditions of Approval for the Applicant's biologist to file field survey results with the appropriate agencies and report any special status species detected prior to and during the construction phase to the agencies.

#### Comment A-17

#### FILING FEES

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying Project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.)

### **Response to Comment A-17**

The commenter notes that the Project is required to pay the CDFW filing fees. All required fees will be paid when the Notice of Determination is filed with the County Clerk.

### Comment A-18

#### CONCLUSION

CDFW appreciates the opportunity to comment on the DEIR to assist San Bernardino County in identifying and mitigating Project impacts on biological resources.

Questions regarding this letter or further coordination should be directed to Rose Banks, Senior Environmental Scientist (Specialist) at (760) 218-0022 or <u>Rose.Banks@wildlife.ca.gov</u>.

### **Response to Comment A-18**

The commenter concludes their comment letter with the contact information of the appropriate party if further questions regarding the comment letter are sought. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

### LETTER B

Sophia Markowska Senior California Representative Defenders of Wildlife California Program Office P.O. Box 401 Folsom, CA 95763 Letter dated on January 23, 2023

### **Comment B-1**

Thank you for the opportunity to provide comments in response to the Draft Environmental Impact Report (DEIR) for the proposed Vidal Energy Project (Project). Defenders of Wildlife (Defenders) is dedicated to protecting all wild animals and plants in their natural communities and has nearly 2.2 million members and supporters in the United States, 323,000 of which reside in California. We strongly support renewable energy development that will help meet California's emission reduction goals and avoids destruction of important wildlife habitat and loss of at-risk species. Achieving a low-carbon energy future is critical for protecting California's internationally treasured wildlife, landscapes, productive farmlands and diverse habitats.

### **Response to Comment B-1**

This comment acknowledges receipt of the Draft EIR and the Defenders' opportunity to provide comment. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

### **Comment B-2**

#### **Project Description**

The proposed Project is a photovoltaic solar facility that would generate up to 160 MW of renewable energy, provide storage for up to 640 MWh and would be supported by the adjacent existing Western Area Power Administration (WAPA) overhead transmission corridor. The Project is located on 1,090 acres of privately-owned land in southeastern San Bernardino County in the East Desert Communities planning area. It is approximately 2.5 miles southeast of unincorporated community of Vidal and is located within the Vidal Wash and Upper Parker Valley-Colorado River watersheds. The Project site is comprised of mostly vacant and undeveloped land with existing rural access roads and contains scattered structures such as abandoned rural residence, garage (storage) areas, and several WAPA towers. Additionally, illegal dumping is occurring throughout the Project site and the wash areas are currently being used by off-highway vehicles.

The Project site may provide habitat to numerous special-status wildlife species, including but not limited to the following.<sup>1</sup>

Common Name	Scientific Name	Status
American badger	Taxidea taxus	State Species of Special Concern
Arizona Bell's vireo	Vireo bellii arizonae	State Endangered
Burrowing owl	Athene cunicularia	State Species of Special Concern
Desert tortoise	Gopherus agassizii	Federally and State Threatened
Gila woodpecker	Melanerpes uropygialis	State Endangered
Townsend's big-eared bat	Corynorhinus townsendii	State Species of Special Concern
Western yellow-billed cuckoo	Coccyzus americanus occidentalis	Federally Threatened and State Endangered
Yellow-breasted chat	Icteria virens	State Species of Special Concern

Footnote 1: California Natural Diversity Database. Accessed 1/19/2023. <u>https://wildlife.ca.gov/Data/CNDDB/Maps-and-Data</u>

### **Response to Comment B-2**

The commenter accurately describes the Project, including the Project location, land use setting description, and lists special-status wildlife that potentially utilize habitat within the Project Site. The commenters' understanding of the Project background is accurate. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

### Comment B-3

#### Comments

As we transition toward a clean energy future, it is imperative that we consider the near-term impact of solar development on our biodiversity, fish and wildlife habitat, and natural landscapes while addressing the long-term impacts of climate change. Renewable energy projects must be planned, sited, developed and operated to avoid, minimize and mitigate adverse impacts to wildlife and lands with known high-resource values . [sic]

### **Response to Comment B-3**

The commenter states the importance of considering potential impacts of solar development to minimize and mitigate adverse impacts to wildlife and lands. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

### Comment B-4

We offer the following comments on the DEIR for the Project:

#### 1. Impact on Critical Habitat for Special-Status Species

The Project site is in close proximity to designated critical habitat for several special-status species, including critical habitat and linkage area for the desert tortoise, razorback sucker and western yellowbilled cuckoo. Desert tortoise critical habitat and the Chuckwalla to Chemehuevi linkage area are within 3 miles of the Project and critical habitat for the razorback sucker and western yellow-billed cuckoo is present within 0.5 miles of the Project.

### **Response to Comment B-4**

The commenter indicates that the Project Site is within close proximity to critical habitat, noting habitat within 0.50 to 3 miles from the Project Site. As stated on page 4.3-10 of **Section 4.3: Biological Resources** of the Draft EIR, Chambers Group conducted a literature review; reconnaissance-level survey; jurisdictional waters delineation; and desert tortoise, burrowing owl, and focused plant survey. As described in more detail in Appendix D of the Draft EIR, the Survey Area for the desert tortoise and burrowing owl surveys include the Project Site and a 500-foot buffer around the Project Site (see Figure 10 within the Biological Resources Report), which complies with the CDFW requirements. The Survey Area did not overlap with critical habitat. See also Response to Comment B-5.

### Comment B-5

The DEIR acknowledges the close proximity of the Project to important biological areas but states since the Project is not located within the critical habitat areas, there will be no impact and no further investigation is required. This is an incomplete analysis; although critical habitat is not located directly on the Project site, the Project has the ability to impact these special-status species and the critical habitat and linkage areas in close proximity to the Project site. Direct and indirect impacts to adjacent land from a solar project may include, but are not limited to, increased predation of special-status species, avian mortality due to lake effect<sup>2</sup>, connectivity and linkage impacts, water pollution and run-off, and impacts from noise, light and dust. We request the DEIR analyze both direct and indirect impacts the Project may have on the critical habitat and linkage areas.

Footnote 2: Upton, J. 2014. Solar farms threaten birds. Scientific American. <u>https://www.scientificamerican.com/article/solar-farms-threaten-birds/#:~:text=lt%20was%20one%20of%20233,fatally%20crippled%20by%20the%20facilities</u>.

### **Response to Comment B-5**

This comment suggests the Draft EIR's conclusion that the Project will have no impacts on special status species is based on the Project not being located within critical habitat and that further analyses is needed. However, the "no impact" conclusion was reached following a literature search for special status species occurrences within a 5-mile buffer around the Project Site, a reconnaissance-level survey, and protocol level surveys. Impacts were analyzed for each special status wildlife species and any potential Project impacts, including those associated with noise, light, and dust, were found to be less than significant with the implementation of Project specific mitigation measures. Additionally, regarding water pollution and runoff, as stated on page 6-11 in **Chapter 6: Other CEQA Considerations**, the Project would be required to comply with the General Construction Permit which requires the development of a Stormwater Pollution Prevention Plan (SWPPP) to eliminate or reduce non-stormwater discharge off site into storm drainage or other water bodies. The Project would not violate any water quality standards or waste discharge requirements.

The commenter also suggests that the potential lake effect may impact avian mortality. The lake effect hypothesis states that PV solar panels are perceived as water by aquatic habitat birds creating a potential risk of collision with the panels.<sup>1</sup> Summarized data from 10 PV solar facilities over 13 study years found variability in the proportion of aquatic habitat bird fatalities among facilities.<sup>2</sup> The studies found that facilities closer to the Salton Sea, a known aquatic habitat bird stop-over site, had a higher proportion of aquatic habitat bird fatalities located in areas largely devoid of water had no aquatic habitat bird fatalities.<sup>3</sup> The data suggested that potential collision risk was higher near the Salton Sea, but that none of the studies attempted to identify the cause of the collisions making broader inference limited. Surveys were conducted for live birds and carcasses at five PV solar facilities and paired reference areas found that aquatic habitat bird carcasses were found only at the PV solar facilities. Further, they found that the number of fatalities detected was low compared to the abundance of live birds observed at a small regional lake suggesting that at the facilities studied, the magnitude of attraction was low.

The Project is located in an area of desert habitat, and there is no large. The Colorado River would be located approximately 0.3 miles southwest from the Project Site boundary. Thus, the landscape setting at the Project is more similar to PV facilities located away from the Salton Sea than those located closer to the Salton Sea. Kosciuch et al. (2020) reported that PV facilities away from a large water body had very few aquatic habitat bird carcasses detected during the study.<sup>4</sup> Although there is support that aquatic habitat birds are attracted to PV solar facilities, given the landscape setting at the Project, it is unlikely that aquatic habitat birds would be exposed in large numbers, and no significant direct or indirect impact on aquatic habitat birds is anticipated.

Patterns of bird mortality at 10 PV solar facilities provide inference into the potential effects of the Project on migratory birds. The studies reported patterns that provide broader inference to other regions including: Three of the top four species detected were ground-dwelling birds that have populations in the millions, and that there was no evidence of a comparatively large-scale fatality event of nocturnal migrating passerines. Thus, based on the landscape setting of the Project, it is expected that fatalities, should they occur, would be similar to the patterns found at other PV facilities and include common ground-dwelling birds, and that this Project would not create a significant impact to water birds due to the hypothetical lake effect. Thus, no significant direct or indirect impact on migratory birds is anticipated.

# Comment B-6

The increasing development of solar energy projects within San Bernardino County is having a significant impact on biological resources in the region. This Project is not an exception and would significantly add to the loss of important and declining biological resources. The DEIR analysis must include the cumulative

<sup>&</sup>lt;sup>1</sup> Kosciuch K, Riser-Espinoza D, Moqtaderi C, Erickson W., Aquatic Habitat Bird Occurrences at Photovoltaic Solar Energy Development in Southern California, USA. Diversity. 13(11):524, 2021. Available at <u>https://www.mdpi.com/1424-2818/13/11/524</u>. Accessed February 16, 2023.

<sup>&</sup>lt;sup>2</sup> Kosciuch K, Riser-Espinoza D, Gerringer M, Erickson W., A summary of bird mortality at photovoltaic utility scale solar facilities in the Southwestern U.S. PLoS ONE 15(4): e0232034, 2020. Available at <a href="https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0232034">https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0232034</a>. Accessed February 16, 2023.

 <sup>&</sup>lt;sup>3</sup> Shuford WD, Warnock N, Molina KC, Mulrooney B, Black AE., 2019, Avifauna of the Salton Sea: abundance, distribution, and annual phenology. Final report for EPA Contract R826552-01-0; 2000. Available at <a href="https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=7311">https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=7311</a>. Accessed February 16, 2023.

<sup>&</sup>lt;sup>4</sup> Kosciuch K, Riser-Espinoza D, Gerringer M, Erickson W., A summary of bird mortality at photovoltaic utility scale solar facilities in the Southwestern U.S. PLoS ONE 15(4).

impacts to wildlife connectivity and critical habitat and provide appropriate mitigation measures. Furthermore, Defenders requests the analysis include a detailed map of existing and planned solar energy development that includes the remaining nearby habitat and linkage areas for desert tortoise.

### **Response to Comment B-6**

The commenter requests that the Draft EIR analyze cumulative impacts to wildlife and provide appropriate mitigation measures. Page 4.3-18 of **Section 4.3: Biological Resources** of the Draft EIR details a cumulative impact analysis based on a list, summary, and figure of reasonably foreseeable projects in the vicinity of the Project Site that the County has determined could, in combination with the Project, potentially result in cumulative impacts (see Table 3-2: Related Projects in **Chapter 3: Environmental Setting of the Draft EIR**). As described on page 4.3-19, while most of the related projects would convert undeveloped land into renewable energy facilities, over time, vegetation communities would re-establish between the panels, fencing, and utility structures, allowing wildlife to continue inhabiting and foraging on the sites over the lifetime of the projects. Further, similar to the Project, the related projects would be required to avoid and/or mitigate impacts to special-status species and habitats in accordance with mitigation incorporated, in combination with the related project's less-than-significant impacts with mitigation incorporated, in combination with the related projects, would not result in significant cumulative impacts to special-status species or habitats.

### **Comment B-7**

#### 2. Revise Mitigation Measure BIO-6

Although no live burrowing owls were observed during surveying, potential burrows with sign of presence including cough pellets and/or whitewash was observed within the Project Site and within the survey buffer area. Since burrowing owl sign was found on and surrounding the Project site, it is reasonable to expect that the Project site provides suitable habitat and/or foraging for the species and burrowing owls may be determined as present during future surveys. To ensure the survival of burrowing owls, it is essential that proper mitigation measures and buffers are implemented, and necessary permits obtained if the species is found to be present. Defenders requests adherence to the recommended mitigation measures within the Staff Report on Burrowing Owl Mitigation.<sup>3</sup> We request this mitigation measure be revised to read:

"Prior to construction, a burrowing owl Take Avoidance Survey shall be conducted by a qualified biologist. The survey shall be conducted no less than 14 days prior to initiating ground disturbance activities. If burrowing owls are determined to be present where Project activities will occur, minimization and avoidance measures shall be required <u>in accordance with the measures outlined in</u> <u>the Staff Report on Burrowing Owl Mitigation</u>, including but not limited to a final survey within 24 hours prior to ground disturbance. <u>In addition, if burrowing owls are determined to be present</u>, <u>CDFW shall be consulted regarding the appropriate avoidance buffers around active burrows and for any necessary permits.</u>"

Footnote 3: California Department of Fish and Wildlife. 2012. Staff Report on Burrowing Owl Mitigation. The 7 March 2012 memo replacing 1995 staff report, State of California Natural resources Agency, Department of Fish and Wildlife. Sacramento, California.

# **Response to Comment B-7**

The commenter provides proposed revisions to Mitigation Measure BIO-6. The proposed revisions are consistent with revisions recommended by CDFW. See Response to Comment A-10 for the revised Mitigation Measure BIO-6.

# Comment B-8

#### 3. Revise Mitigation Measure BIO-8

The Project site contains habitat suitable for special-status species. Where adverse impacts to habitat that is suitable for special-status species cannot be avoided, mitigation must be provided.

This project will result in the permanent conversion of burrowing owl habitat, as once the land is developed, the habitat will not return to the current state. This warrants permanent protection of habitat and foraging lands. The mitigation measure should be consistent with the Staff Report on Burrowing Owl Mitigation from the State of California that provides the permanent conservation of burrowing owl habitat should be included.<sup>4</sup> This conversion of burrowing owl habitat shall be comparable to or better than the impacted area to mitigate for the permanent impact to nesting habitat. We request this mitigation measure be revised to read:

"Temporary and permanent impacts to all jurisdictional resources <u>and impacts to habitat suitable for</u> <u>special-status species</u> shall be compensated through a combination of habitat creation (i.e., establishment), enhancement, preservation, and/or and restoration at a minimum of a 1:1 ratio or as required by the permitting agencies. Any creation, enhancement, preservation, and/or restoration effort shall be implemented pursuant to a Habitat Restoration Plan, which shall include success criteria and monitoring specifications, and <u>shall be approved by CDFW</u>. A habitat restoration specialist will be designated and approved by the permitting agencies and will determine the most appropriate method of restoration. <u>For the permanent conversion of burrowing owl habitat, habitat</u> <u>and foraging area that is comparable to or better than the impacted area shall be permanently</u> <u>conserved. This shall be done in accordance with the Staff Report on Burrowing Owl Mitigation."</u>

Footnote 4: California Department of Fish and Wildlife. 2012. Staff Report on Burrowing Owl Mitigation. The 7 March 2012 memo replacing 1995 staff report, State of California Natural resources Agency, Department of Fish and Wildlife. Sacramento, California.

### **Response to Comment B-8**

The commenter notes that suitable habitat is present on the Project Site for special status species including the burrowing owl, and that any impacts to suitable habitat that cannot be avoided should be mitigated. The commenter further suggests changes to Mitigation Measure BIO-8. Focused surveys were conducted within suitable habitat on site, and the Draft EIR and Biological Resources Report concluded that suitable habitat is unoccupied by special status species. Additionally, CDFW, acting as a reviewing agency for the Project, reviewed the Project, potential impacts, and associated mitigation measures, and provided comments and edits to the proposed mitigation measures to further adequacy. CDFW had no additional comments on Mitigation Measure BIO-8 as proposed in the Draft EIR, but recommended revisions to Mitigation Measure BIO-6 related to a Burrowing Owl Mitigation and Monitoring Plan. No further revisions have been made to Mitigation Measure BIO-6 in addition to the revisions made in Response to Comment A-10.

# Comment B-9

#### 4. Desert Tortoise

The Project site is in close proximity to desert tortoise critical habitat and the Chuckwalla to Chemehuevi tortoise linkage area. It is reasonable to expect desert tortoises will utilize the project area in the future given the close proximity to critical habitat and linkage area. Therefore, Defenders requests the inclusion of additional desert tortoise mitigation measures, as follows.

#### a) Pre-Construction Survey

The DEIR fails to include a mitigation measure requiring pre-construction surveys specifically for desert tortoise completed by a desert tortoise qualified biologist. Given the possibility of the desert tortoise entering the Project area, Defenders requests desert tortoise specific pre-construction surveys to ensure that no desert tortoises have entered the Project site before construction begins. Furthermore, if any desert tortoises are found during pre-construction surveys, CDFW and USFWS must be consulted for any further desert tortoise specific mitigation measures and any required permits prior to commencement of construction activities.

### **Response to Comment B-9**

The commenter requests pre-construction surveys for desert tortoise. See Response to Comment A-5 for Mitigation Measure BIO-12, which requires a pre-construction survey for desert tortoise.

### Comment B-10

#### b) Raven Mitigation Plan

Ravens are known predators of desert tortoises and are likely a major impediment to desert tortoise recovery. Solar development and the associated infrastructure can be expected to increase raven threats to desert tortoises by providing raven hunting and nesting platforms. Ravens can fly at least 30 miles daily in search of food and water<sup>5</sup> and with desert tortoise critical habitat located within 3 miles of the Project site, it is likely the project would subsidize the raven population and create access to desert tortoises.

The DEIR must include a mitigation measure requiring the creation and implementation of a Raven Management Plan. This plan should include an analysis on the impact the Project could have on common ravens, identify Project design to discourage use by ravens for perching or nesting, the removal of inactive nests within the Project area and active site monitoring for raven presence. It is vital that the Project implement a Raven Management Plan to mitigate the impact of this project on surrounding desert tortoise populations.

Footnote 5: Boarman, W.I, M.A. Patten, R.J. Camp, and S.J. Collis. 2006. Ecology of a population of subsidized predators: Common ravens in the central Mojave Desert, California. Journal of Arid Environments 67 (2006) 248–261.

# **Response to Comment B-10**

The commenter requests the inclusion of a Raven Management Plan. As stated in Mitigation Measure BIO-12 (see Response to Comment A-5), if desert tortoise are observed within the Project Site during preconstruction surveys, a Raven Management Plan will be implemented to offset potential predatorial impacts to tortoises. Additionally, Mitigation Measure BIO-3 is revised to include measures to reduce the potential for ravens to migrate into the Project Site. Mitigation Measure BIO-3 is revised as follows and as reflected in **Chapter 3: Corrections and Additions to the Draft EIR:** 

**Mitigation Measure BIO-3:** An environmental training program shall be developed and presented to all crew members prior to the beginning of all project construction. The training shall describe special-status wildlife species and sensitive habitats that could occur within project work areas, protection afforded to these species and habitats, and avoidance and minimization measures required to avoid and/or minimize impacts from the project. <u>The training shall include a discussion on the reduction of trash and the elimination any food and standing water originating from a human source that may attract wildlife, including ravens, to the site.</u> The training program will be approved by a qualified biologist. Records of training will be kept on-site.

### Comment B-11

#### Conclusion

Thank you once again for the opportunity to provide comments on the DEIR for the Vidal Energy Project and for considering our comments. We look forward to reviewing the Final EIR and request to be notified when it is available. If you have any questions, please contact me at 408-603-4694 or via email at <u>smarkowska@defenders.org</u>.

### **Response to Comment B-11**

The commenter concludes their comment letter with the contact information of the appropriate party if further questions regarding the comment letter are sought. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

# LETTER C1

Edward L. LaRue, Jr., M.S. Ecosystems Advisory Committee, Chairperson Desert Tortoise Council 3807 Sierra Highway #6-4514 Acton, CA 93510 Letter dated January 23, 2023

# Comment C1-1

The Desert Tortoise Council (Council) is a non-profit organization comprised of hundreds of professionals and laypersons who share a common concern for wild desert tortoises and a commitment to advancing the public's understanding of desert tortoise species. Established in 1975 to promote conservation of tortoises in the deserts of the southwestern United States and Mexico, the Council routinely provides information and other forms of assistance to individuals, organizations, and regulatory agencies on matters potentially affecting desert tortoises within their geographic ranges.

Both our physical and email addresses are provided above in our letterhead for your use when providing future correspondence to us. When given a choice, we prefer that San Bernardino County (County) email to us future correspondence, as mail delivered via the U.S. Postal Service may take several days to be delivered. Email is an "environmentally friendlier way" of receiving correspondence and documents rather than "snail mail."

We appreciate this opportunity to provide comments on the above-referenced project. We also appreciate that the Council was alerted to this project in an email notice from you on 12/2/2022. Given the location of the proposed project in habitats likely used by Mojave desert tortoise (*Gopherus agassizii*) (synonymous with Agassiz's desert tortoise), our comments pertain to enhancing protection of this species during activities funded, authorized, or carried out by the County, which we assume will be added to the Decision Record for this project as needed. Please accept, carefully review, and include in the relevant project file the Council's following comments for the proposed project.

The Mojave desert tortoise is among the top 50 species on the list of the world's most endangered tortoises and freshwater turtles. The International Union for Conservation of Nature's (IUCN) Species Survival Commission, Tortoise and Freshwater Turtle Specialist Group, now considers the Mojave desert tortoise to be Critically Endangered (Berry et al. 2021), as it is a "species that possess an extremely high risk of extinction as a result of rapid population declines of 80 to more than 90 percent over the previous 10 years (or three generations), population size fewer than 50 individuals, other factors." It is one of three turtle and tortoise species in the United States to be critically endangered. This status, in part, prompted the Council to join Defenders of Wildlife and Desert Tortoise Preserve Committee (Defenders of Wildlife et al. 2020) to petition the California Fish and Game Commission in March 2020 to elevate the listing of the Mojave desert tortoise from threatened to endangered in California.

We reviewed the Vidal Energy Project Draft Environmental Impact Report (DEIR) in eastern San Bernardino County, California that was prepared to comply with the California Environmental Quality Act (CEQA), and offer the following comments for your consideration and incorporation into the revised or final document.

# **Response to Comment C1-1**

This comment introduces the organization, acknowledges receipt of the Notice of Availability of the Draft EIR and the Council's opportunity to provide comment. The commenter provides background on the special status history of the Mojave Desert tortoise. This comment serves as an introduction to the remainder of the letter. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

# Comment C1-2

#### **Description of Proposed Project and Alternatives**

According to the DEIR (San Bernardino County 2022), CDH Vidal LLC (CORE) plans to construct and operate the Vidal Energy Project (Project), a solar photovoltaic (PV) electricity generation and energy storage facility. The Project would produce up to 160 megawatts (MW) of electricity and include up to 640 megawatt hours (MWh) of energy storage capacity rate in a battery energy storage system (BESS). The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, a Project substation, and operations and maintenance (O&M) facilities. Existing roads would be used to the greatest extent possible, potential new unpaved roads may need to be constructed off-site to serve as access roads from the existing road network to the Project Site.

The Project would be supported by the existing, adjacent Western Area Power Administration (WAPA) 161-kilovolt (kV) overhead corridor to distribute the energy. The Project would include the construction of one on-site substation facility, which would collect and convert the power generated on-site for transmission in an overhead or underground line to the WAPA transmission system and interconnection location. Upgrades associated with WAPA interconnection include replacement of existing fiber optic cable along the 52-mile Headgate Rock-Blythe 161 kV transmission line and construction of a new switchyard and associated interconnection facilities adjacent to the Project and to WAPA's existing Headgate Rock-Blythe 161-kV transmission line. WAPA would also work with the Bureau of Land Management (BLM) in the processing of the right-of-way (ROW) application to support these connections, as needed. WAPA would maintain and decommission its facilities.

Operations and maintenance of the Vidal Solar Project would occur for about 35 years, the expected life of the Project. If the facility is not updated and recommissioned, it would be decommissioned. Site infrastructure would be removed and Project roads would be restored to their pre-construction condition to the extent feasible unless the landowner elects to retain the improved roads. To that ends, we provide Abella and Berry (2016)<sup>1</sup> as an excellent resource to be shared with CORE as best management practices for arid lands restoration.

The Project would be located on up to approximately 1,090 acres of land. The Project Site is located approximately 2.5 miles southeast of Vidal, which is an unincorporated area of the County and located east of U.S. Route 95, north of the Riverside County border, and just west of the Colorado River. The Project Site encompasses 1,090 acres within 21 parcels (in their entirety and portions thereof) that are held under lease agreement by CORE. It is about 3 miles southeast of the Chemehuevi critical habitat unit (USFWS 1994) for the tortoise and Tortoise Conservation Area (TCA).

#### Footnote 1:

https://www.dropbox.com/s/nx1b5m2b5ehya12/%23Abella%20and%20Berry%202016.pdf?dl=0

# **Response to Comment C1-2**

The commenter describes the Project. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

### Comment C1-3

<u>Alternatives Evaluated in the DEIR</u>: Four Alternatives were evaluated in the DEIR, including the proposed Project and:

- Alternative 1 No Project Alternative. Under the No Project Alternative, CORE would not construct a PV and BESS facility and the Project's objectives would not be realized.
- Alternative 2 Reduced Acreage Alternative. Under the Reduced Acreage Alternative, the Project Site would be reduced by 177 acres, and the Project's renewable energy generation capacity would be reduced by approximately 25 percent due to the installation of fewer PV panels. This alternative avoids siting the PV panels in the smaller washes.
- Alternative 3 Offsite Alternative. Under the Offsite Alternative, the Offsite Alternative would be
  redesigned and relocated to approximately 1,100 acres of BLM-administered land outside of the
  City of Blythe, which is designated as a Development Focus Area (DFA) for renewable energy in
  the Desert Renewable Energy Conservation Plan (DRECP; BLM 2016).

Of the three action alternatives analyzed in the DEIR, the Council prefers the Reduced Acreage Alternative, because it would reduce impacts to washes used by the tortoise and other desert species for forage (increased diversity and abundance of native vegetation) and as movement corridors ( please see our comments under "Appendix D – Biological Resources").

### **Response to Comment C1-3**

The commenter notes that of the alternatives presented in **Chapter 5: Alternatives Analysis** of the Draft EIR, the commenter prefers Alternative 2 (the Reduced Acreage Alternative). As stated on pages 5-19 and 5-20 of the Draft EIR, the Reduced Acreage Alternative was conservatively found to be the environmentally superior alternative. However, it was noted that the Reduced Acreage Alternative would not realize certain environmental benefits and would not meet the Project objectives to the same extent as the Project. Alternative 2 would leave undeveloped underutilized land that has been planned for a solar energy facility, within an existing fenced area surrounded by similar renewable energy development. It was also concluded that the Reduced Acreage Alternative would contribute less than the Project in assisting California reach its renewable energy generation goals under Senate Bill (SB) 100. Nonetheless, the commenter's preference of the Reduce Acreage Alternative is noted.

### Comment C1-4

Two other alternatives were considered but dismissed. One was a Fossil Fuel Alternative and the other a Distributed Generation Alternative.

Of the six alternatives described in the DEIR, the Council supports the Distributed Generation Alternative. This alternative installs smaller scale PV facilities at or near the point of energy use. According to the DEIR, this alternative was dismissed because (1) finding 16 or more separate sites for development of solar

power that produces 10 MW each to produce collectively 160 MW of electricity is not feasible due to the time, expense, and site control requirements associated with selecting such a <u>large number of locations</u> (emphasis added); and (2) CORE does not currently own or control any other such sites or land in San Bernardino County. We challenge the reasons given for dismissing this alternative. If CORE expended similar time and expense for the 16 Distributed Generation sites as it did for the 21 parcels for the proposed Project, it would likely be able to develop and implement the Distributed Generation Alternative. While CORE does not control any other sites in San Bernardino County, we are not sure why the project must be located in San Bernardino County. One of the viable alternatives in the DEIR is in Riverside County. In addition, if the County required applicants to first explore distributed generation of solar energy rather than utility-scale solar with its greater impacts to biological resources and climate change (please see "Climate Change" and "Mitigation Measures" below) and fall short of requiring full mitigation for direct, indirect, and cumulative impacts. From the information provided in the DEIR, it appears the Distributed Generation Alternative was dismissed not because it is a non-viable alternative, but because it is not what CORE wanted to implement.

# **Response to Comment C1-4**

The commenter notes that there were two additional alternatives initially considered, but ultimately rejected. The commenter notes that of these two, the Distributed Generation Alternative is preferred. As stated on page 5-3, distributed generation systems typically generate less than 10 MW, which would require at least 16 separate projects at 10 MW each, to equate to the Project's proposed 160 MW capacity. The commenter notes that Riverside County should have been evaluated as a viable option. However, finding 16 or more separate sites for development in either San Bernardino or Riverside County, of solar power is not feasible due to the time, expense, and site control requirements associated with selecting this number of locations. To be a viable alternative to the Project, the Applicant would need to own or control a sufficient amount of land to accommodate 160 MW of capacity. The Applicant, however, does not currently own or control any other such sites or land in San Bernardino County or Riverside County. Therefore, this alternative was, and still is, considered infeasible. Additionally, the commenter's assertion that CORE would likely be able to develop and implement the Distributed Generation Alternative is speculative. Under the Distributed Generation Alternative, the Applicant would be required to undergo the CEQA process for each separate site to determine if significant impacts would occur as compared to the analysis prepared for the singular Project Site as analyzed in this Draft EIR.

# Comment C1-5

We question the need for 16 sites that generate 10 MW of electricity. Alternative 3, a viable alternative, is a Reduced Acreage Alternative with reduced energy output by 25 percent. If this alternative is feasible, then a Distributed Generation Alternative should be a viable alternative. For these reasons, we strongly request the County revise the DEIR and analyze the Distributed Generation Alternative as the Preferred Alternative in the CEQA document, as it appears to be a viable alternative.

### **Response to Comment C1-5**

It should be noted that Alternative 2 is the Reduced Acreage Alternative, and Alternative 3 is the OffSite Alternative. The commenter notes that if the Reduced Acreage Alternative, at 25 percent reduction, is a viable alternative, then 16 sites should not be needed for the Distributed Generation Alternative. Please see Response to Comment C1-4. Additionally, as stated on pages 5-19 and 5-20 of **Chapter 5: Alternatives Analysis** of the Draft EIR, the Reduced Acreage Alternative was determined feasible, it would (1) leave

undeveloped, underutilized land planned for solar energy facility, (2) contribute less in assisting California reach its renewable energy generation goals, and (3) would not realize certain benefits and not meet the Project objectives to the same extent as the Project. Based on the estimates used to determine the acreage needed for the Reduced Acreage Alternative, a Distributed Generation Alternative with an output of 120 MW (or 25 percent reduction compared to the Project's 160 MW capacity) would still require up to 12 separate sites for development in either San Bernardino or Riverside County to accommodate a similar 120 MW capacity as described in the Reduced Acreage Alternative. Finding 12 separate sites suitable for solar power is not feasible due to the time, expense, and site control requirements associated with selecting this number of locations. This would still require a significant amount of land, of which the Applicant does not own or control in San Bernardino County or Riverside County. Therefore, the Distributed Generation Alternative would not be a viable alternative and was eliminated from further consideration in the Draft EIR.

# Comment C1-6

#### Connected Project to Federal Action(s)

From the information presented in the DEIR, the Council believes the Project is a "connected" project to a federal action, because the WAPA upgrades needed to accept the electricity generated by the Project and need for a right-or-way (ROW) grant from the Bureau of Land Management (BLM) for upgrades. According to 40 Code of Federal Regulations 1508.25(a)(1), "[a]ctions are connected if they:

- (i) Automatically trigger other actions which may require environmental impact statements.
- (ii) Cannot or will not proceed unless other actions are taken previously or simultaneously.
- (iii) Are interdependent parts of a larger action and depend on the larger action for their justification."

From information presented in the DEIR, one or more of these three requirements appears to apply, making this Project a connected action. According to the Council on Environmental Quality (1997) "the range of actions that must be considered includes not only the project proposal but all connected and similar actions that could contribute to cumulative effects." Consequently, this would require that WAPA or BLM analyze all connected actions (the Project, upgrades, and ROW issuance) in a National Environmental Policy Act (NEPA) document. Consequently, we request that the DEIR be reissued as a NEPA/CEQA, joint EIR/EIS (environmental impact statement) document or explain in the Revised DEIR why the Project is not a connected action under NEPA regulations.

### **Response to Comment C1-6**

The commenter asserts the Project is a connected action and that a joint CEQA / NEPA EIR / EIS be prepared and reissued. There is no requirement to have the prepared document be a joint CEQA/NEPA document. A separate NEPA analysis by WAPA has already been initiated. WAPA hosted a public scoping meeting on January 27, 2022. The public scoping period ended on February 9, 2022. WAPA has evaluated the public comments it received and is incorporating them into the Project's environmental review. WAPA determined that an Environmental Assessment (EA) is appropriate action and is preparing an EA.

# Comment C1-7

#### Compliance with California Executive Order N-82-20

On October 7, 2020, Governor Newsom issued Executive Order N-82-20<sup>2</sup> to combat the biodiversity crisis. In the DEIR, the Project objectives are listed as renewable energy goals, creation of green jobs (we are not sure what green jobs would be created as construction and maintenance workers would need to commute during the estimated 14-month construction period and 35-year operations and maintenance period), and siting and designing the Project in an environmentally responsible manner consistent with current County guidelines. We found no information on compliance with this executive order on combating the biodiversity crisis, especially with respect to the Mojave desert tortoise and other wildlife species. Given the importance of this resource topic (e.g., Governor's October 7, 2020 Executive Order) and the rapid and substantial impacts to many Mojave Desert species and the ecosystem occurring from climate change (Smith et al. 2023), we request that an analysis of the proposed action on climate change and wildlife including the tortoise be included in the revised DEIR/EIS.

#### Footnote 2:

https://www.dropbox.com/s/wytoq87u36xhaya/%24Climate%20Change%20Eecutive%20Order%2010.0 7.2020-EO-N-82-20-.pdf?dl=0

### **Response to Comment C1-7**

The commenter requests that the Project evaluate impacts to biodiversity by complying with Executive Order N-82-20. While biodiversity isn't specifically addressed in Appendix G of the CEQA Guidelines, the Draft EIR did evaluate impacts to biological resources in **Section 4.3: Biological Resources**. The Draft EIR found that impacts to biological resources would be considered less than significant with mitigation incorporated. Further, mitigation measures have been revised at the request of CDFW and other commenters. These revisions are provided in **Chapter 3: Corrections and Additions to the Draft EIR**. With the incorporation of mitigation measures as written and revised in this Final EIR, impacts to special status species, would remain less than significant.

### Comment C1-8

#### Climate Change

The DEIR has a section that analyzes impacts to air quality from a human health perspective. However, we found no section that analyzes the impacts of the proposed Project or alternatives, including the construction, operation and maintenance, and decommissioning phases, on climate change and effects on wildlife and habitats (e.g., invasive plant species, increased wildfire frequency/size/intensity, loss of habitat, etc.)

Vegetation sequesters carbon. Studies around the world have shown that desert ecosystems can play an important role in sequestering carbon. For example, the California deserts account for nearly 10 percent of the state's carbon sequestration; below ground in soil and root systems, and above ground in biomass. Protecting this biome can contribute to securing carbon stores in the state (MDLT 2021). However, when plants die, they release carbon from their roots, stems, and leaves into the atmosphere and contribute to climate change. Given the current climate change conditions, there is an increasing need for carbon sequestration, not carbon release; therefore, there is a growing need to increase the biomass of native plants including in plants int California deserts.

The proposed Project would result in the loss/degradation of native plants and their ability to sequester carbon for decades or longer. In addition, the proposed Project, when combined with the numerous actions that have occurred in the eastern Mojave and Colorado deserts in the County and southern California that destroy vegetation, would be contributing to climate change. Consequently, the County should conduct a cumulative impacts analysis of the proposed Project and alternatives with respect to climate change. Cumulative impacts should be analyzed and presented with referenced or supporting data in the revised DEIR/EIS. Given the importance of this resource topic (e.g., Executive Order N-82-20) and its rapid and substantial impacts to many Mojave Desert species and the ecosystem (Smith et al. 2023), we request that an analysis of the proposed Project and alternatives on the impacts to climate change and biodiversity, including the tortoise, be included in the revised DEIR/EIS. In addition, the Council requests the County develop and implement mitigation to avoid or fully offset the impacts to climate change from the proposed Project and alternatives.

# **Response to Comment C1-8**

The commenter notes that the Draft EIR does not analyze the impacts of the Project or alternatives on climate change and effects on wildlife and habitats. **Section 4.6: Greenhouse Gas Emissions** of the Draft EIR addresses greenhouse gas (GHG) emissions and the potential impacts to global climate change resulting from Project construction, operation, and decommissioning. The analysis concluded that the Project's impacts related to GHG emissions would be less than significant. Further, as described under Threshold (b) on pages 4.6-16 through 4.6-19, the Project would be consistent with applicable plans, policies, regulations and GHG reduction actions/strategies, such as those outlined in the 2021 Regional GHG Reduction Plan, County Policy Plan, and the California Air Resources Board's 2017 Scoping Plan Update.

The comment further discusses the Project's potential impacts on carbon sequestration through the loss/degradation of native plants. The vegetation on the Project Site that have the more material effect on carbon sequestration is the living Palo Verde trees and larger biomass vegetation that is contained within the jurisdictional washes. The Project has been designed to avoid impacts to the majority of the vegetation contained in the washes (see Mitigation Measure BIO-2). Additionally, temporary and permanent impacts to all jurisdictional resources shall be compensated through a combination of habitat creation, enhancement, preservation, and/or restoration at a minimum of a 1:1 ratio or as required by the permitting agencies (see Mitigation Measure BIO-8).

### Comment C1-9

#### Environmental Impact Analysis

As general observation, we were surprised at the paucity of scientific reports and journal articles cited in the DEIR to analyze impacts of the proposed Project and alternatives and the effectiveness of mitigation on the DEIR. We suggest the County revise the DEIR/EIS to include scientific citations in its analysis of impacts and mitigation effectiveness, and decisions.

# **Response to Comment C1-9**

The commenter mentions that the Draft EIR be revised to include additional scientific citations. The analysis included in the Draft EIR, including those of impacts and mitigation effectiveness, relies on several technical studies prepared by industry experts, as well as many references. All cited references are included in **Chapter 7: References** of the Draft EIR.
#### Comment C1-10

<u>Air Quality</u>: In Chapter 4 – Environmental Impact Analysis under Air Quality, please note that U.S. Environmental Protection Agency has proposed to reduce the National Ambient Air Quality Standards for Particulate Matter (PM2.5) to 9.0 to [*sic*] 10.0 µg/m3 (<u>https://www.epa.gov/pm-pollution/proposed-decision-reconsideration-national-ambient-air-quality-standards-particulate</u>).

We request that the DEIR/EIS be updated to include this information.

#### **Response to Comment C1-10**

The commenter notes that the United States Environmental Protection Agency (EPA) has proposed to reduce the National Ambient Air Quality Standards (NAAQS) for Particulate Matter (PM 2.5) to 9.0 to 10.0  $\mu$ g/m3. The Draft EIR was evaluated against current adopted regulations and standards. Therefore, the Draft EIR was not analyzed against proposed standards.

#### Comment C1-11

<u>Aesthetics, Glint, and Glare</u>: The DEIR discusses the impacts of glare to "[p]otential viewers of the facility primarily include motorists on U.S. Route 95 and residents." "The solar PV panels would not create a substantial source of glare due to the use of anti-reflective coating on the panels and the elevation of potential receptors relative to the facility." Potential receptors appear to be limited to where people are likely to be on the ground near the Project. We found no analysis of impacts to wildlife from glare such as "lake effect" to wildlife species, especially birds (Koscuich et al. 2020). Please revise the DEIR/EIS to include this impact.

#### **Response to Comment C1-11**

The commenter requests an analysis of glint and glare from solar PV panels on wildlife species. The Project's potential impacts on glint and glare are provided on page 4.1-19 of **Section 4.1: Aesthetics** of the Draft EIR. As stated therein, the solar PV panels would not create a substantial source of glare due to the use of anti-reflective coating on the panels and the elevation of potential receptors relative to the facility. Impacts were determined to be less than significant. Please refer to Response to Comment B-5 regarding the potential impacts to wildlife from the "lake effect." Therefore, based on the analysis on glint and glare provided in the Draft EIR and Response to Comment B-5 regarding "lake effect," impacts would be less than significant.

#### Comment C1-12

<u>Mitigation Measures</u>: Section 4.3.8 describes the mitigation measures that would be implemented to minimize potential impacts to biological resources. Those that when implemented would likely result in minimizing direct mortality of tortoises include:

• BIO-1. A biological monitor shall be present prior to initiation of ground disturbing activities to demark limit of disturbance boundaries, conduct pre-construction sweeps, and inspect compliance with project protection measures.

2-30

- BIO-2. Desert riparian vegetation shall be avoided to the greatest extent possible within Vidal Wash and Drainage Systems 5 and 6 to preserve habitat for the sensitive species with potential to nest and forage in these areas.
- BIO-3. An environmental training program shall be developed and presented to all crew members prior to the beginning of all project construction.
- BIO-5. If a sensitive species is found, the species shall be relocated out of harm's way according
  to the capture/relocation plan. Any mortalities shall be reported to the agencies and County of
  San Bernardino. A final monitoring report will be submitted to CDFW [California Department of
  Fish and Wildlife] and County of San Bernardino. The annual report shall include a summary of
  pre-construction surveys, biological monitoring, avoidance measures implemented, and whether
  the avoidance measures were effective.
- BIO-8. Temporary and permanent impacts to all jurisdictional resources shall be compensated through a combination of habitat creation (i.e., establishment), enhancement, preservation, and/or and restoration at a minimum of a 1:1 ratio or as required by the permitting agencies. Any creation, enhancement, preservation, and/or restoration effort shall be implemented pursuant to a Habitat Restoration Plan, which shall include success criteria and monitoring specifications, and shall be approved by the permitting agencies and County of San Bernardino.
- Temporarily impacted drainage features shall be recontoured to pre-construction conditions. Temporary impacts shall be restored sufficient to compensate for the impact to the satisfaction of the permitting agencies (depending on the location of the impact). If restoration of temporary impact areas is not possible to the satisfaction of the appropriate agency, the temporary impact shall be considered a permanent impact and compensated accordingly.

The DEIR concludes, that "[w]ith the implementation of Mitigation Measures BIO-1 through BIO-11, the Project's impacts on biological resources would be reduced to less than significant.

These proposed mitigation measures are standard mitigation measures that have been implemented for numerous years. They focus on direct impacts to biological resources. They do not mitigate indirect or cumulative impacts or the temporal loss of the functions and values of the biological resources destroyed/degraded. For the Mojave desert tortoise, its ongoing decline since listing (USFWS 2015, 2016, 2018, 2019, 2020, 2022a, 2022b; Allison and McLuckie 2018) is attributed to the direct, indirect, and cumulative impacts of human actions (USFWS 2011). While mitigating many of the direct impacts of proposed projects to the tortoise has been the practice for more than thirty years, this mitigation has been unsuccessful in halting the decline in tortoise abundance and density for numerous reasons including failure to mitigate indirect and cumulative impacts to the tortoise.

By attaching Appendix A to this comment letter, we would like to enter into the record an accounting of the science-based, observed declines in tortoise populations, which are intended to inform and be included in the new analysis in the DEIR/EIS. We note that this same information was provided to the County on 4/30/2022 in scoping comments by the Council (Desert Tortoise Council 2022<sup>3</sup>), yet there is nothing in the DEIR to suggest that our scoping comments were received, and certainly no evidence the information informed the analysis and decisions in the DEIR. We contend that the DEIR is deficient in this and other regards given herein, and is further evidence why a more detailed analysis is required in the DEIR/EIS.

Footnote 3: <u>https://www.dropbox.com/s/t5emgaizjb33nxl/Vidal%20Energy%20Project.4-30-2022.pdf?dl=0</u>

## **Response to Comment C1-12**

The commenter summarizes the mitigation measures presented in Section 4.3: Biological Resources of the Draft EIR that are aimed at minimizing tortoise mortality. The commenter suggests that these mitigation measures do not take into consideration direct or cumulative impacts. The commenter further provides information in an appendix to the comment letter that describes the decline in desert tortoise populations and indicates that the decrease in tortoise habitat and linkage areas between habitats is contributing to their decline. As stated on pages 4.3-10 and 4.3-11 of Section 4.3: Biological Resources and Appendix D of the Draft EIR, a literature review was completed to inform the reconnaissance-level survey and desert tortoise focused surveys. The literature review included the most recent records of the CNDDB managed by the CDFW, the USFWS database – Carlsbad office, the National Wetlands Inventory, the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey, and the California Native Plant Society's Electronic Inventory (CNPSEI) of Rare and Endangered Vascular Plants of California. These databases contain records of reported occurrences of federally and State listed endangered or threatened species, proposed endangered or threatened species, California Species of Special Concern (SSC), or otherwise sensitive species or habitats that may occur within or in the immediate vicinity of the Project. The data provided within the comment letter's appendix utilizes data from 1994 through 2018. The literature review that informed the Biological Resources Report and Draft EIR took into consideration the current (at the time the surveys and literature review were conducted) population status of the desert tortoise and is reflected in the analysis provided in the Draft EIR. Additionally, protocol level surveys were conducted for the desert tortoise, and none were observed onsite. Nonetheless, as described in Response to Comment A-5, Mitigation Measure BIO-12, a Desert Tortoise-specific mitigation measure, has been added to require pre-construction surveys for desert tortoise no more than 30 days prior to construction activities. See also Responses to Comment A-14 and B-4. Regarding cumulative impacts, see Response to Comment B-6.

Regarding the scoping comment provided by the commenter, as stated on page 1-2 of **Chapter 1: Introduction** of the Draft EIR, three comment letters were received after the public review period, including the referenced letter from the Desert Tortoise Council. The letter received was included in Appendix A of the Draft EIR, and the information therein was taken into account during preparation of the Biological Resources Report (Appendix D of the Draft EIR) and **Section 4.3: Biological Resources** of the Draft EIR. The NOP comment letter is included as Letter C2 and is responded to below.

#### Comment C1-13

In Appendix D - Biological Resources Report of the DEIR, the document says the tortoise is "considered absent from the Project Area." However, we were unable to find in the DEIR a conclusion that the Project would have no impact on the tortoise. The Council contends that given the published scientific research/studies on the tortoise, the proposed Project will adversely impact the tortoise. For example, the tortoise likely uses the Project Area but may not be a permanent resident of the Project Site. Please see our comments under "Appendix D – Biological Resources."

We request that the DEIR/EIS be revised and analyze the indirect and cumulative impacts to the tortoise and the temporal loss of the functions and values of the biological resources destroyed/degraded from implementation of the proposed Project and alternatives. A few of the indirect impacts that should be analyzed are mentioned below.

#### **Response to Comment C1-13**

The commenter indicates that they were unable to find a conclusion regarding impacts to desert tortoise in the Draft EIR. See Response to Comment A-5.

#### Comment C1-14

**Indirect Impact – Heat Sink Effect**: The CEQA document should include an analysis of the heat sink effect from solar energy plants and how this would impact the tortoise and other wildlife species near the Project. This analysis is needed because of the biodiversity crisis and because climate change is resulting in increasing high temperatures that now exceed the physiological limits of many organisms, and even widespread species are threatened with extinction (Smith et al. 2023).

#### **Response to Comment C1-14**

The commenter requests an analysis of heat sink effect from solar energy plants be conducted to determine the impacts this could have on desert tortoise. The heat sink effect is not required to be analyzed under CEQA. Therefore, no further response is required.

#### Comment C1-15

**Indirect Impact – Road Effects**: A few hundred workers would be employed during the construction of the proposed Project. We presume that workers would travel from Blythe, or farther away on a daily basis. This increased traffic on roads to the Project Site may increase the risk of death or injury to the Mojave desert tortoise and other wildlife species. All direct and indirect impacts from the road effect zone should be analyzed in the revised DEIR and fully mitigated. Exclusion fencing for tortoises and other wildlife species should be considered to determine the most effective measures to implement. In that respect, we enter into the public record Appendix B, which provides a wealth of information about impacts associated vehicles, which we expect to be included in the revised DEIR/EIS.

#### **Response to Comment C1-15**

The commenter indicates that the increased traffic from workers traveling to the Project Site will result in an increase in tortoise death or injury. As stated on page 4.9-7 of **Section 4.9: Transportation** of the Draft EIR, site access would be provided via two access roads on the northern and southern portions of the west side of the Project Site. While existing unofficial roads would be utilized to the greatest extent possible, potential new unpaved roads may need to be constructed off site to serve as access roads from the existing road network to the Project. The construction period is constrained to a year, and within that year, desert tortoise are typically only expected to be above ground and migrating from April through May and September through October. As required in Mitigation Measure BIO-3, an environmental training program shall be developed and presented to crew members prior to the beginning of Project construction. The environmental training program, which includes special status species avoidance, will make crew members aware that desert tortoise may be encountered in the vicinity of the Project Site, and that avoidance and minimization measures will be required to avoid and/or minimize impacts from the Project. Appendix B of Letter C1 lists a bibliography of road impacts in desert ecosystems but does not raise any specific issues with respect to the content and adequacy of the Draft EIR. No further response is warranted.

#### Comment C1-16

<u>Indirect Impact – Subsidized Predators of the Tortoise and Other Wildlife</u>: Common ravens (Corvus corax) are known predators of the Mojave desert tortoise and their numbers have increased substantially because of human subsidies of food, water, and sites for nesting, roosting, and perching to hunt (Boarman 1993, 2003; Kristan and Boarman 2003). Appendix D of the DEIR indicated common ravens were "commonly observed or detected on [the Project] site."

The transmission line to the WAPA transmission system (i.e., the gen-tie line) would include construction and maintenance of towers or poles. We request these structures be the tubular design monopole with a steep-pointed apex and insulators on down-sloping cross arms. These are preferable to lattice towers, which should not be used, as such towers provide substrates or platforms for nest construction by common ravens. This human subsidy of ravens and resulting mortality of tortoises from an increased number of predators is an example of an indirect impact that the DEIR did not analyze. We request that this analysis be include in the revised DEIR/EIS.

For local impacts, the revised DEIR/EIS should include mitigation that reduces/eliminates human subsidies of food and water, and for the common raven, sites for nesting, roosting, and perching to address local impacts (footprint of the proposed Project). This includes buildings, fences, and other vertical structures associated with the Project site. For example, under Project Construction, "Construction water usage is anticipated to be approximately 240 acre-feet (AF) during the construction period of 14 months." We request that at no time should water applied from a human source be allowed to pond or form puddles on the ground or on roofs.

Mitigation measures should include science-based monitoring and adaptive management throughout all phases of the Project or alternative selected to collect data on the effectiveness of the mitigation and implement changes to reduce/eliminate predation on the tortoise if existing measures are not effective.

For regional and cumulative impacts, the County should require CORE to participate in an effort to mitigate regional and cumulative impacts. For example, in California, the Project Proponent should contribute to the National Fish and Wildlife Foundation's Raven Management Fund to help mitigation for regional and cumulative impacts.

#### **Response to Comment C1-16**

This comment asserts the Project could increase predation on tortoises, specifically by ravens. Please see Response to Comment B-10 that addresses the concern for the reduction of human subsidies of food and water onsite (see revised Mitigation Measure BIO-3) and the addition of a Raven Management Plan if desert tortoises are observed during pre-construction surveys (see Mitigation Measure BIO-12). The commenter further requests that the transmission line to the WAPA transmission system include towers or poles that are tubular monopole with a steep-pointed apex and insulators on down-sloping cross arms as opposed to lattice towers to minimize substrates or platforms for nest construction by ravens. The design of the towers and poles is up to the discretion of WAPA and would not be within the control or regulation of the County. The comment is noted.

## Comment C1-17

#### Appendix D – Biological Resources

According to the report in Appendix D, protocol level surveys were conducted to look for presence/sign of tortoise and burrowing owl in 2020. Based on the results of these surveys, the report concludes that tortoises were not present in the Project Area during the survey. We note the surveys were conducted 2+ years ago and should probably be conducted again in spring 2023 (see below).

Although the tortoise sign detected during the protocol pre-project survey was minimal, tortoises have been documented using washes as movement paths or corridors (Hromada et al. 2020). In addition, the Project Site is about three miles from designated critical habitat for the tortoise and the Chemehuevi Tortoise Conservation Area (TCA). Tortoises have been documented making periodic forays of more than 7 miles at a time (Berry 1986a) and travel up to 0.6 mile a day (Berry 1986b). Home range size is significantly reduced during drought years (Duda et al. 1999). Because southern California has been experiencing a drought for the last several years, with above average rainfall occurring in 2022-2023, tortoise survey efforts in spring 2023 would likely yield a different result than those from 2020.

Because of the duration of the proposed Project (i.e., 35 years for operations and maintenance plus addition time for construction and decommissioning), the presence of multiple washes of various sizes running through the Project site, the proximity of critical habitat and a TCA, and the documented multimile movements by tortoises in one year, and their use of some washes as paths or natural corridors for tortoise movements (Hromada et a. 2020), there is a likelihood that tortoises may occur on the Project Site during one or more of its phases. We request that the revised DEIR/EIS discuss the actions that would be implemented when a tortoise is encountered during construction, operations, and maintenance, or decommissioning phases of the Project. Such interactions would likely require coordination/consultation with U.S. Fish and Wildlife Service (USFWS). In addition, we request that information on tortoises using washes as movement paths or corridors (Jennings et al. 2015, among others) be added to the section in Appendix D on Wildlife Movement Corridors and Jurisdictional Waters – State Permits.

#### **Response to Comment C1-17**

The commenter requests updated surveys for desert tortoise and burrowing owl be conducted and for a discussion of the actions that would be implemented when a tortoise is encountered on the Project site. See Response to Comment A-5. Additionally, the commenter notes that the desert tortoise utilizes washes, which would be considered critical habitat. As detailed in Mitigation Measure BIO-2, the desert riparian vegetation shall be avoided to the greatest extent possible within Drainage 4 and Drainage Systems 5 and 6, the largest washes on-site. It should be noted that the washes have been left open, and the desert tortoise would be allowed to move throughout the corridors, unhindered by fencing. No critical habitat would be impacted by Project activities.

#### Comment C1-18

We request that the USFWS be included in the agencies consulted regarding the proposed Project. The Army Corps of Engineers is mentioned regarding the process of determining if waters are jurisdictional under the Clean Water Act. The USFWS should be listed as an agency that is consulted to determine compliance with the Federal Endangered Species Act (FESA).

If the proposed Project is a connected action to a federal action, the threshold for compliance with the FESA changes from whether the Project is likely to result in take of the tortoise to whether the Project is likely to adversely affect the tortoise. This adverse impact may be from direct, indirect, or cumulative impacts.

#### **Response to Comment C1-18**

The commenter is requesting that USFWS be included as a list of agencies consulted. Mitigation Measure BIO-12 would require that the Applicant consult with CDFW and USFWS to determine compliance with State (CESA) and federal (FESA) law. The commenter also notes the thresholds for compliance with the FESA change based on whether or not the Project is a connected action to a federal action. As discussed in Response to Comment C1-6, a NEPA analysis by WAPA has already been initiated. Therefore, the 'take' of the Desert Tortoise, although unlikely to occur, is appropriately referenced in the Draft EIR.

#### Comment C1-19

The biological report said a tortoise burrow was found but the burrow "was filled with spider webs and appeared to have been in disuse for some time." As experienced tortoise biologists know, spiderwebs can be constructed in a tortoise burrow in less than 24 hours. Because tortoises construct and use numerous burrows, know their locations, and reuse them at various times during the year(s) when traversing through their annual year or multiple year home ranges (Harless et al. 2009, Rautenstrauch et al. 2002), a burrow may not have been used by a tortoise for several days, weeks, or months. Please clarify this information in the revised DEIR/EIS.

#### **Response to Comment C1-19**

The commenter suggests that the potential tortoise burrow discovered during the pre-construction surveys may be an active burrow. The qualified biologist conducting the desert tortoise survey determined the burrow was inactive not only due to the presence of spider webs but also due to the lack of sign surrounding the burrow. Furthermore, the burrow was not discovered on the Project site but rather within the 500-foot buffer surrounding the Project Site. As stated in Mitigation Measure BIO-12, pre-construction surveys for desert tortoise will be conducted prior to ground disturbing activities and in the event that the burrow is observed to be active, minimization and avoidance measures will be implemented. For more details, see Response to Comment A-5.

#### Comment C1-20

Sections 5.6 Special Status Species and 6.4 Sensitive Species – Desert Kit Fox: We request that the following information be added to this section. The desert kit fox (*Vulpes macrotis*) is protected under Title 14 of the California Code of Regulations §460. "Fisher, marten, river otter, desert kit fox and red fox may not be taken at any time."

#### **Response to Comment C1-20**

The comment requests the addition of protective language to Appendix D: Biological Resources Report under Section 5.6 Special Status Species and 6.4 Sensitive Species- Desert Kit Fox to include that fisher, marten, river otter, desert kit fox and red fox may not be taken at any time. Fisher, marten, river otter, and red fox are not expected to occur within the Project Site. Nonetheless, Mitigation Measure BIO-7, as detailed in the Draft EIR, reduces potential impacts to desert kit fox to less than significant by avoiding active burrows. Additionally, Mitigation Measure BIO-5 requires any found sensitive species be relocated out of harm's way according to the capture/relocation plan. Therefore, no addition to the Biological Resources Report is necessary.

## Comment C1-21

Page 61 says – "An environmental training program shall be developed and presented to all crew members prior to the beginning of all project construction. The training shall describe special-status wildlife species and sensitive habitats that could occur within project work areas, protection afforded to these species and habitats, and avoidance and minimization measures required to avoid and/or minimize impacts from the project." We recommend this training program be presented to crew employed during operation, maintenance, and decommissioning as take of special-status species could occur during these phases of the Project.

## **Response to Comment C1-21**

The commenter requests that the environmental training program be presented to crews employed during operation, maintenance, and decommissioning phases of the Project. During operation and maintenance of the Project, little to no ground disturbance would occur. The only onsite maintenance that would be required would be servicing, repair, security, and panel washing, most of which would only occur at most on a bi-annual basis and would not require heavy machinery, and, therefore, the likelihood of species being impacted during this time is very low. The Project is expected to be operational for up to 35 years at which point technology may be upgraded or the site may be decommissioned. The Project would be required to decommission and restore the Project Site adhering to the requirements of the appropriate governing authorities and in accordance with all applicable federal, State, and County regulations, which would include a decommissioning plan or something similar. Decommissioning plans typically include monitoring efforts for resources including biological resources. The Project would be required to implement recommendations at the time of decommissioning. No further revisions to Mitigation Measure BIO-3 are necessary.

#### Comment C1-22

In addition, we request that an incentive program for protection of special-status wildlife species be developed and implemented that would be applied to all employees and contractors. This program would add to the eyes and ears of qualified biologists and monitors present during the Project. Incentive programs have been used in the past during some construction projects and have been highly effective at eliminating take, mortality, and injury. Incentives for finding special status species and informing the authorized biologist or monitors have included monetary rewards but other incentives could be offered (e.g., additional vacation hours, etc.).

#### **Response to Comment C1-22**

The comment suggests an incentive program be developed for the Project in which employees and contractors are rewarded for finding special status species. The environmental training program presented in Mitigation Measure BIO-3 will ensure that all workers are educated on the protection of special status species which, based on experiences from qualified biologists, has proven sufficient to ensure that species are appropriately reported if observed on site. Further, it is possible that an incentive program could create unintended consequences such as over reporting of species or distraction from work which could compromise safety.

## Comment C1-23

We appreciate this opportunity to provide comments on this Project and trust they will help protect tortoises during any resulting authorized activities. Herein, we reiterate that the Desert Tortoise Council wants to be identified as an Affected Interest for this and all other projects funded, authorized, or carried out by the County that may affect species of desert tortoises, and that any subsequent environmental documentation for this Project is provided to us at the contact information listed above. Additionally, we ask that you respond in an email that you have received this comment letter so we can be sure our concerns have been registered with the appropriate personnel and office for this project.

#### **Response to Comment C1-23**

The commenter concludes their comment letter. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

[The remainder of the comment letter includes appendices and citations that are referenced throughout the comment letter.]

## LETTER C2

Edward L. LaRue, Jr., M.S. Ecosystems Advisory Committee, Chairperson Desert Tortoise Council 4654 East Avenue S #257B Palmdale, CA 93552 Letter dated April 30, 2022

[This letter was received in response to the Notice of Preparation and is referenced above in Comment C1-12.]

## Comment C2-1

The Desert Tortoise Council (Council) is a non-profit organization comprised of hundreds of professionals and laypersons who share a common concern for wild desert tortoises and a commitment to advancing the public's understanding of desert tortoise species. Established in 1975 to promote conservation of tortoises in the deserts of the southwestern United States and Mexico, the Council routinely provides information and other forms of assistance to individuals, organizations, and regulatory agencies on matters potentially affecting desert tortoises within their geographic ranges.

We appreciate this opportunity to provide scoping comments on the above-referenced project, which will be considered in a forthcoming Draft Environmental Impact Report (DEIR). Given the location of the proposed project in habitats likely occupied by Mojave desert tortoise (*Gopherus agassizii*) (synonymous with Agassiz's desert tortoise), our comments include recommendations that will enhance protection of this species and its habitat during activities authorized by the County of San Bernardino (County), which we recommend be added to project terms and conditions in the authorizing document (e.g., right of way grant, etc.) as appropriate. Please accept, carefully review, and include in the relevant project file the Council's following comments and attachments for the proposed project.

#### **Response to Comment C2-1**

This comment introduces the organization and the remainder of the comment letter. This comment serves as an introduction to the remainder of the letter. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

#### Comment C2-2

#### **Project Description**

"CDH Vidal LLC (CORE) plans to construct and operate the Vidal Energy Project (Project), a solar photovoltaic (PV) electricity generation and energy storage facility that would produce up to 160 megawatts (MW) of solar power and include up to 640 megawatt hours (MWh) of energy storage capacity rate in a battery energy storage system (BESS) on up to approximately 1,220 acres of land. The Project would be supported by the existing, adjacent Western Area Power Administration (WAPA) 161-kilovolt (kV) overhead transmission corridor. The Project would include the construction of one on-site substation facility, which would collect and convert the power generated on-site for transmission in an overhead or underground line to the WAPA transmission system and interconnection location. The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system,

communication cables, overhead and underground transmission lines, electrical switchyards, a Project substation, and operations and maintenance (O&M) facilities.

"The Project Site is located approximately 2.5 miles southeast of unincorporated Vidal, just east of U.S. Route 95, north of the Riverside County boundary, and west of the Colorado River (see Figure 1). The Project Site encompasses 1,220 acres within 21 privately owned parcels (in their entirety and portions of) that are in the process of lease acquisition by CORE. The County's Zoning Map identifies the zoning of the Project Site as Resource Conservation (RC), which provides sites for open space and recreational activities, single-family homes on very large parcels, and similar and compatible uses. Commercial renewable energy facilities are an allowable use within the RC land use zoning district. Existing development and disturbed areas within the Project Site include rural access roads that include access to the transmission line, scattered abandoned rural residences, garage (storage) areas, and several WAPA towers. The wash areas are currently being used by off-highway vehicles. Primary access to the Project Site."

#### **Response to Comment C2-2**

The commenter describes the Project. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

#### **Comment C2-3**

#### **Scoping Comments**

First, we understand that comments were due on April 27, 2022 and these comments are three days late. This tardiness is due to the busy schedule of our volunteer staff responsible to write this letter, and because we only recently learned about this project from a third party, not from the County. In any case, we hope these comments are still received as County planners consider the environmental analysis of this project.

The purpose of scoping is to allow the public to participate in an "early and open process for determining the scope of issues to be addressed, and for identifying the significant issues related to a proposed action" (40 Code of Federal Regulations (CFR) 1501.7). The DEIR should discuss how this proposed project fits within the management structure of the current land management plan for the area [e.g., California Desert Conservation Area Plan (CDCA Plan) (BLM 1980 as amended]. It should provide maps of critical habitat for the Mojave desert tortoise (USFWS 1994a), Areas of Critical Environmental Concern (ACECs), and other areas identified for special management by BLM [e.g., National Conservation Lands (NCLs)]; U.S. Fish and Wildlife Service (USFWS) (e.g., linkage habitats between desert tortoise populations); Nevada Department of Wildlife (NDOW); other federal, state, and local agencies; and tribal lands.

#### **Response to Comment C2-3**

The commenter explains the reasoning for submitting their comments and describes the purpose of scoping comments. As stated in Response to Comment C1-12, as stated on page 1-2 of **Chapter 1: Introduction** of the Draft EIR, the letter from the Desert Tortoise Council received on the NOP was included in Appendix A of the Draft EIR.

Regarding the area plans, as stated on page 4.3-18 of **Section 4.3: Biological Resources**, the Project Site is within the planning area of several adopted local plans, including the West Mojave Plan, the County

Countywide Plan/Policy Plan, and the Desert Renewable Energy Conservation Plan (DRECP). However, the West Mojave Plan and the DRECP apply only to Bureau of Land Management (BLM)-administered lands and, therefore, do not apply to the Project. Additionally, as stated on page 6-6 of **Chapter 6: Other CEQA Considerations**, the Project is not located within an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan. Figure 11: USFWS Critical Habitat of the Biological Resources Report maps the Project's location and its proximity to the USFWS critical habitat for the desert tortoise, razorback sucker, and western yellow-billed cuckoo. Further information related to areas identified for special management by BLM and Nevada Department of Wildlife do not apply to the Project and, therefore, are not discussed in the Draft EIR.

#### Comment C2-4

#### Proposed Action and Alternatives Considered

We fully expect that the County will comply with all applicable statutes, regulations, Executive and Departmental Orders, and other requirements as they pertain to this project. The County should demonstrate in the DEIR that the proposed project meets all these requirements with respect to the tortoise, that:

- The proposed project will be in conformance with decisions in current land use plan(s), including the Desert Renewal Energy Conservation Plan (DRECP), even though that plan is applicable to public lands managed by the Bureau of Land Management (BLM);
- the proposed project will be consistent with priority conservation, restoration, and/or adaptation objectives in the best available landscape-scale information (e.g., for tortoise population connectivity, etc.);
- the applicant has coordinated with governments and agencies, including consideration of consistency with officially adopted plans and policies (e.g., recovery plans);
- the proposed project is in an area with low or comparatively low resource conflicts and where conflicts can be resolved (e.g., it is our understanding that portions of the project are in the designated tortoise Fenner Critical Habitat Unit, even though how much is not revealed in the Notice of Preparation (NOP);
- the proposed project will be located in, or adjacent to, previously contaminated or disturbed lands;
- the proposed project will minimize adverse impacts on important fish and wildlife habitats and migration/movement corridors including the desert tortoise;
- the proposed project will minimize impacts on lands with wilderness characteristics and the values associated with these lands;
- the proposed project will not adversely affect lands donated or acquired for conservation purposes, or mitigation lands identified in previously approved projects such as translocation areas for desert tortoise;

- significant cumulative impacts on resources of concern should not occur as a result of the proposed project (i.e., exceedance of an established threshold such population viability for the tortoise and connectivity of tortoise populations among recovery units); and,
- the County's analysis would use current data on the tortoise for the project area, population, pertinent Recovery Unit, and range wide, as population numbers and densities have substantially declined in most recovery units, so the County must use data/knowledge currently available on what is needed for habitat linkages for the tortoise (Allison and McLuckie 2018; USFWS 2021, 2022a, and 2022b).

## **Response to Comment C2-4**

The commenter asserts that the Draft EIR should demonstrate that the proposed Project meets all applicable statutes, regulations, Executive and Departmental Orders, and other requirements as they pertain to the Project. Pages 4.3-2 through 4.3-9 of **Section 4.3: Biological Resources** of the Draft EIR describe the regulatory framework surrounding the Project Site and the proposed Project. As stated throughout **Section 4.3: Biological Resources**, the Project would be required to comply applicable regulations listed therein, and where necessary, the Project would implement mitigation measures (e.g., Mitigation Measures BIO-1 through BIO-12, which is included in the MMRP) to reduce impacts from the Project to less than significant levels. See Response to Comment A-5 regarding the results of the desert tortoise surveys and the addition of Mitigation Measure BIO-12.

## Comment C2-5

Whereas we understand that the County serves as the Lead Agency and there is (apparently) no BLM involvement, we have serious concerns about BLM's commitment to manage effectively for the sustained yield of the tortoise, which also affects projects permitted by the County. These concerns include past actions regarding:

- Mitigation to improve conditions within the connectivity areas, and if these options do not exist, mitigation may be applied toward the nearest tortoise conservation area (e.g., an ACEC for which tortoise had been identified in the Relevant and Important Criteria or critical habitat); and
- a plan included in the DEIR that would effectively monitor desert tortoise impacts, including verification that desert tortoise connectivity corridors are functional. The required Federal Endangered Species Act (FESA) consultation should further define this monitoring plan.

Regarding the first concern, we believe that a multiagency approach is best to ensure the County is meeting its obligations, soliciting review and input from pertinent federal and state resource agencies, Tribal governments/agencies, and non-governmental organizations (NGOs). Mitigation of impacts should include, in priority order, avoidance, minimization and compensation for unavoidable impacts. Mitigation should at a minimum offset all direct, indirect, and cumulative impacts, especially given the status and trend of the tortoise (please see *Affected Environment - Status of the Populations of the Mojave Desert Tortoise* below). The County should ensure it is effectively implementing its section 10(A)(1b) conservation mandate under the FESA.

Mitigation should be applied only in areas where the lands are effectively managed for the benefit of the tortoise for both the short-term and long-term. As currently managed, BLM ACECs in Nevada and the California Desert Conservation Area are not meeting this criterion. Consequently, mitigation should be

implemented on lands with a durable conservation designation, or on privately owned lands with a conservation easement or other legal instrument that ensures conservation in perpetuity. Please see *Mitigation Plans* below for additional concerns and requested requirements.

Regarding the second concern, a monitoring plan should (1) be scientifically and statistically credible; (2) be implementable; and (3) require the project proponent to implement adaptive management to correct land management practices if the mitigation is not accomplishing its intended purposes.

#### **Response to Comment C2-5**

The commenter expresses concerns about BLM's commitment to manage tortoise protection and believes that a multi-agency approach is best, and that appropriate mitigation and a mitigation and monitoring program be adopted for the Project. See Response to Comment A-5 regarding the desert tortoise survey and Mitigation Measure BIO-12. As stated therein, if desert tortoise are observed within the Project Site during the pre-construction survey, the Applicant shall consult with CDFW and USFWS to determine compliance with the State (CESA) and federal (FESA) law.

The mitigation measures presented in the Draft EIR and Mitigation Measure BIO-12 would mitigate the Project's potentially significant impacts on biological resources to a less than significant level. Therefore, the Project would not result in significant and unavoidable impacts.

#### Comment C2-6

The Council expects that the County will describe the purpose and need for this project and develop and analyze other viable alternatives, such as rooftop solar, which we believe constitute "other reasonable courses of actions" (40 CFR 1508.25).

The Council supports alternatives to reduce the need for additional solar energy projects in relatively undisturbed habitats in the Mojave Desert. For example, the City of Los Angeles has implemented a rooftop solar Feed-in Tariff (FiT) program, the largest of its kind in America. The FiT program enables the owners of large buildings to install solar panels on their roofs, and sell the power they generate back to utilities for distribution into the power grid.

We request that County include an urban solar alternative. Under this alternative, owners of large buildings or parking areas would grant the project proponent permission to install solar panels on their roofs and cover parking areas, and sell the power they generate back to utilities for distribution into the power grid.

This approach puts the generation of electricity where the demand is greatest, in populated areas. It may also reduce transmission costs, greenhouse gas emissions from constructing energy projects far from the sources of power demand and materials for construction, the number of affected resources in the desert that must be analyzed under the California Environmental Quality Act (CEQA), and mitigation costs for direct, indirect, and cumulative impacts; monitoring and adaptive management costs; and habitat restoration costs following decommissioning. The DEIR should include an analysis of where the energy generated by this project would be sent and the needs for energy in those targeted areas that may be satisfied by urban solar. We request that at least one viable alternative be analyzed in the DEIR where electricity generation via solar energy is located much closer to the areas where the energy will be used, including generation in urban/suburban areas. In addition, the County should include another viable alternative of locating solar projects on bladed or highly degraded tracts of land (e.g., abandoned agricultural fields). Such an alternative would not result in the destruction of desert habitats and mitigation for the lost functions and values of these habitats. These losses and mitigation are costly from an economic, environmental, and social perspective. We strongly oppose developing this project in critical habitat, which would set a precedent in San Bernardino County.

These two alternatives are important to consider to minimize or avoid the loss of vegetation that sequesters carbon. Studies around the world have shown that desert ecosystems can act as important carbon sinks. For example, the California deserts account for nearly 10 percent of the state's carbon sequestration; below ground in soil and root systems, and above ground in biomass. Protecting this biome can contribute to securing carbon stores in the state (MDLT 2021). Given the current climate change conditions, there is an increasing need for carbon sequestration. Because vascular plants are a primary user of carbon and the proposed Project would result in the loss/degradation of more than a thousand acres of plants and their ability to sequester carbon for decades or longer unless successful measures are implemented to restore the same biomass of native vegetation as it is being destroyed, it is imperative that the proposed Project minimize the loss of vegetation.

## **Response to Comment C2-6**

The commenter notes that the Draft EIR should describe the purpose and need for the Project. While "purpose and need" is language specific to NEPA analysis, the Draft EIR discusses the Project's objectives on pages 2-8 and 2-9 of **Chapter 2: Project Description**. The commenter also requests alternatives, including rooftop/urban solar and alternative location. Regarding the referenced City of Los Angeles rooftop solar FiT program, these programs would be implemented at a County-wide level and would require an independent action separate from the Project. Therefore, no additional response is required.

As discussed in **Chapter 5: Alternatives Analysis,** the Draft EIR considered five alternatives: Distributed Generation Alternative, Fossil Fuel Power Plant Alternative, No Project Alternative, Reduced Acreage Alternative, and Offsite Alternative. The first two alternatives were initially considered but determine to be infeasible. Of the latter three alternatives, the Reduced Acreage Alternative was found to be the environmentally superior alternative, after the No Project Alternative. However, as stated on pages 5-19 and 5-20, the Reduced Acreage Alternative would not realize certain environmental benefits and would not meet the Project objectives to the same extent as the Project and would leave undeveloped underutilized land that has been planned for a solar energy facility, within an existing fenced area surrounded by similar renewable energy development. Additionally, the Reduced Acreage Alternative would contribute less than the Project in assisting California reach its renewable energy generation goals under SB 100. See Response to Comment C1-5 regarding the potential for other locations for alternatives. See Response to Comment C1-8 regarding sequestration.

## Comment C2-7

The DEIR should consider the monitoring results of recently developed solar projects where soils have been bladed versus those facilities where the vegetation has been mowed or crushed and allowed to revegetate the area. In the latter case, it may be appropriate to allow tortoises to enter the facilities and re-establish residency (i.e., repatriate) under the solar panels as vegetation recolonizes the area. This could be an *option* for the currently described project alternative. It should be designed/implemented as a scientific experiment to add to the limited data on this approach to determine the extent of effects on Mojave desert tortoise populations and movements/connectivity between populations, which is an important issue for this species, particularly over the long-term (see *Desert Tortoise Habitat Linkages/Connectivity among Populations and Recovery Units* below). Long-term monitoring for the life of the project would need to be included to accurately evaluate the effectiveness of this strategy.

#### **Response to Comment C2-7**

The commenter requests that the soils be bladed versus mowing or crushing vegetation to help with revegetation particularly in the connectivity areas. See page 4.3-15 of **Section 4.3: Biological Resources** of the Draft EIR and Response to Comment A-5 regarding the presence of desert tortoise on the Survey Area. See Response to Comment C1-17 regarding Mitigation Measure BIO-2, which would avoid the desert riparian vegetation to the greatest extent possible within Drainage 4 and Drainage Systems 5 and 6, the largest washes on-site.

#### Comment C2-8

#### Affected Environment

<u>Status of the Population of the Mojave Desert Tortoise:</u> The Council provides the following information for the proponent so that these or similar data may be included in the DEIR. The Council believes that BLM's failure to implement recovery actions for the Mojave desert tortoise as given in the recovery plan (both USFWS 1994b and 2011) has contributed to tortoise declines between 2004 and 2014 (Table 1; USFWS 2015). There are 17 populations of Mojave desert tortoise described below that occur in Critical Habitat Units (CHUs) and Tortoise Conservation Areas (TCAs); 14 are on lands managed by the BLM; 8 of these are in the California Desert Conservation Area (CDCA).

**Table 1**. Summary of 10-year trend data for 5 Recovery Units and 17 CHUs/TCAs for Mojave desert tortoise. The table includes the area of each Recovery Unit and CHU/TCA, percent of total habitat for each Recovery Unit and CHU/TCA, density (number of breeding adults/km<sup>2</sup> and standard errors = SE), and the percent change in population density between 2004 and 2014. Populations below the viable level of 3.9 breeding individuals/km<sup>2</sup> (10 breeding individuals per mi<sup>2</sup>) (assumes a 1:1 sex ratio) and showing a decline from 2004 to 2014 are in red.

Recovery Unit: Designated Critical Habitat	Surveyed area	% of total habitat	2014 density/km <sup>2</sup>	% 10-year change (2004_2014)
Unit/Tortoise Conservation Area	(KIII)	Unit & CHU/TCA	(SE)	(2004-2014)
Western Mojave, CA	6,294	24.51	2.8 (1.0)	-50.7 decline
Fremont-Kramer	2,347	9.14	2.6 (1.0)	-50.6 decline
Ord-Rodman	852	3.32	3.6 (1.4)	-56.5 decline
Superior-Cronese	3,094	12.05	2.4 (0.9)	-61.5 decline
Colorado Desert, CA	11,663	45.42	4.0 (1.4)	-36.25 decline
Chocolate Mtn AGR, CA	713	2.78	7.2 (2.8)	-29.77 decline
Chuckwalla, CA	2,818	10.97	3.3 (1.3)	-37.43 decline
Chemehuevi, CA	3,763	14.65	2.8 (1.1)	-64.70 decline
Fenner, CA	1,782	6.94	4.8 (1.9)	-52.86 decline
Joshua Tree, CA	1,152	4.49	3.7 (1.5)	+178.62 increase
Pinto Mtn, CA	508	1.98	2.4 (1.0)	-60.30 decline
Piute Valley, NV	927	3.61	5.3 (2.1)	+162.36 increase
Northeastern Mojave	4,160	16.2	4.5 (1.9)	+325.62 increase
Beaver Dam Slope, NV, UT, AZ	750	2.92	6.2 (2.4)	+370.33 increase
Coyote Spring, NV	960	3.74	4.0 (1.6)	+ 265.06 increase
Gold Butte, NV & AZ	1,607	6.26	2.7 (1.0)	+ 384.37 increase
Mormon Mesa, NV	844	3.29	6.4 (2.5)	+ 217.80 increase
Eastern Mojave, NV & CA	3,446	13.42	1.9 (0.7)	-67.26 decline
El Dorado Valley, NV	999	3.89	1.5 (0.6)	-61.14 decline
Ivanpah Valley, CA	2,447	9.53	2.3 (0.9)	-56.05 decline
Upper Virgin River	115	0.45	15.3 (6.0)	-26.57 decline
Red Cliffs Desert	115	0.45	15.3 (6.0)	-26.57 decline
Range-wide Area of CHUs -	25,678	100.00		-32.18 decline
TCAs/Range-wide Change in				
Population Status				

**Table 2**. Estimated change in abundance of adult Mojave desert tortoises in each recovery unit between2004 and 2014 (Allison and McLuckie 2018). Decreases in abundance are in red.

Recovery Unit	Modeled Habitat (km <sup>2</sup> )	2004 Abundance	2014 Abundance	Change in Abundance	Percent Change in Abundance
Western Mojave	23,139	131,540	64,871	-66,668	-51%
Colorado Desert	18,024	103,675	66,097	-37,578	-36%
Northeastern Mojave	10,664	12,610	46,701	34,091	270%
Eastern Mojave	16,061	75,342	24,664	-50,679	-67%
Upper Virgin River	613	13,226	10,010	-3,216	-24%
Total	68,501	336,393	212,343	-124,050	-37%

Important points from these tables include the following:

Change in Status for the Mojave Desert Tortoise Range-wide

- Ten of 17 populations of the Mojave desert tortoise declined from 2004 to 2014.
- Eleven of 17 populations of the Mojave desert tortoise are no longer viable. These 11 populations represent 89.7 percent of the range-wide habitat in CHUs/TCAs.

Change is Status for the Eastern Mojave Recovery Unit – Nevada and California

- This recovery unit had a 67 percent decline in tortoise density from 2004 to 2014, the largest decline of the five recovery units for the tortoise.
- Tortoises in this recovery unit have densities that are below viability.

# *Change in Status for the El Dorado Valley and Ivanpah Valley Tortoise Populations in the Eastern Mojave Recovery Unit.*

- Both populations in this recovery unit experienced declines in densities of 61 percent and 56 percent, respectively from 2004 to 2014. In addition, there was a 67 percent decline in tortoise abundance.
- Both populations have densities less than needed for population viability.

#### Change in Status for the Mojave Desert Tortoise in California

- Eight of 10 populations of the Mojave desert tortoise in California declined from 29 to 64 percent from 2004 to 2014 with implementation of tortoise conservation measures in the Northern and Eastern Colorado Desert (NECO), Northern and Eastern Mojave Desert (NEMO), and Western Mojave Desert (WEMO) Plans.
- Eight of 10 populations of the Mojave desert tortoise in California are no longer viable. These eight populations represent 87.45 percent of the habitat in California that is in CHU/TCAs.
- The two viable populations of the Mojave desert tortoise in California are declining. If their rates of decline from 2004 to 2014 continue, these two populations will no longer be viable in about 2020 and 2031.

#### Change in Status for the Mojave Desert Tortoise on BLM Land in California

- Eight of eight populations of Mojave desert tortoise on lands managed by the BLM in California declined from 2004 to 2014.
- Seven of eight populations of Mojave desert tortoise on lands managed by the BLM in California are no longer viable.

#### Change in Status for Mojave Desert Tortoise Populations in California that Are Moving toward Meeting Recovery Criteria

• The only population of Mojave desert tortoise in California that is not declining is on land managed by the National Park Service, which has increased 178 percent in 10 years.

<u>The Endangered Mojave Desert Tortoise</u>: The Council believes that the Mojave desert tortoise meets the definition of an endangered species. In the FESA, Congress defined an "endangered species" as "any species which is in danger of extinction throughout all or a significant portion of its range..." In the California Endangered Species Act (CESA), the California legislature defined an "endangered species" as a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant, which is in serious

danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes (California Fish and Game Code § 2062). Because most of the populations of the Mojave desert tortoise were non-viable in 2014, most are declining, and the threats to the Mojave desert tortoise are numerous and have not been substantially reduced throughout the species' range, the Council believes the Mojave desert tortoise should be designated as an endangered species by the USFWS and California Department of Fish and Wildlife (CDFW).

Mojave desert tortoise is now on the list of the world's most endangered tortoises and freshwater turtles. It is in the top 50 species. The International Union for Conservation of Nature's (IUCN) Species Survival Commission, Tortoise and Freshwater Turtle Specialist Group, now considers Mojave desert tortoise to be Critically Endangered (Berry et al. 2021), which is a "species that possess an extremely high risk of extinction as a result of rapid population declines of 80 to more than 90 percent over the previous 10 years (or three generations), a current population size of fewer than 50 individuals, or other factors." It is one of three turtle and tortoise species in the United States to be critically endangered.

The summary of data above indicates that BLM's current management actions for the Mojave desert tortoise are inadequate to help recover the desert tortoise. BLM has been ineffective in halting population declines, which has resulted in non-viable populations. The Council believes that these management actions are inadequate in preventing the extirpation of the Mojave desert tortoise in California and Nevada.

## **Response to Comment C2-8**

The commenter provides information summarizing the population declines in desert tortoise and the commenter's assertion that the desert tortoise meets the definition of an endangered species. See Response to Comment C1-12 regarding the data provided in the comment and the literature review conducted in preparation of the Draft EIR. The remainder of the comment regarding the BLM's management actions are noted; however, as this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

#### Comment C2-9

#### Standardized Surveys – Desert Tortoise and Other Species

For the DEIR to fully analyze the effects and identify potentially significant impacts, the following surveys must be performed to determine the extent of rare plant and animal populations occurring within areas to be directly and indirectly impacted.

Prior to conducting surveys, a knowledgeable biologist should perform a records search of the California Natural Diversity Data Base (CNDDB; CDFW 2022) for rare plant and animal species reported from the region. The results of the CNDDB review would be reported in the DEIR with an indication of suitable and occupied habitats for all rare species reported from the region based on performing the species-specific surveys described below.

CDFG (2010) lists hundreds of plant communities occurring in California, including those that are considered Communities of Highest Inventory Priority, or "CHIPs." Biologists completing surveys on behalf of the project proponent should document such communities where they occur, and indicate how impacts to them will be minimized.

The project proponent should fund focused surveys for all rare plant and animal species reported from the vicinity of the proposed project. Results of the surveys will determine appropriate permits from CDFW and USFWS and associated avoidance, minimization, and mitigation measures. Focused plant and animal surveys should be conducted by knowledgeable biologists for respective taxa (e.g., rare plant surveys should be performed by botanists), and to assess the likelihood of occurrence for each rare species or resource (e.g., plant community) that has been reported from the immediate region. Focused plant surveys should occur only if there has been sufficient winter rainfall to promote germination of annual plants in the spring. Alternatively, the environmental documents may assess the likelihood of occurrence with a commitment by the proponents to perform subsequent focused plant surveys prior to ground disturbance, assuming conditions are favorable for germination.

<u>Specialized Reptile Surveys</u>: If there are any loose, shifting sands within/near the impact areas of the panels, along the gen-tie lines, or access routes, focused surveys for Mojave fringe-toed lizards (Uma scoparia) should be performed (University of California, Riverside 2005, 2007).

<u>Migratory Birds/Eagles</u>: The County should ensure that all actions it authorizes are implemented in compliance with the Migratory Bird Treaty Act, Bald and Golden Eagle Protection Act, and associated regulations, executive orders, and policies (e.g., Driscoll 2010, Pagel et al. 2010) to avoid mortality or injury to migratory birds and harassment of eagles.

<u>Burrowing owl</u>: Surveys for western burrowing owl (Athene cunicularia) should be performed implementing available methods (CDFG 2012). In addition to the project footprint, the protocol requires that peripheral transects be surveyed at 30-, 60-, 90-, 120-, and 150-meter intervals in all suitable habitats adjacent to the subject property to determine the potential indirect impacts of the project on this species. If burrowing owl sign is found, CDFG (2012) describes appropriate minimization and mitigation measures that would be required. If burrowing owl sign is found, the County and the project proponent should develop a science-based mitigation/monitoring/adaptive management plan with the USFWS and CDFW and ensure that this plan is implemented.

<u>Mojave Desert Tortoise Surveys</u>: Formal protocol surveys for Mojave desert tortoise (USFWS 2019) must be conducted at the proper times of year. Because USFWS (2009) and CDFW require only experienced biologists to perform protocol surveys, USFWS and CDFW biologists should review surveyors' credentials prior to initiating the surveys. Per this protocol, since the impact area is larger than 500 acres, the surveys must be performed in the time periods of April-May or September-October so that a statistical estimate of tortoise densities can be determined for the "action area" (please see below). If any tortoise sign is found, the project proponent should coordinate with USFWS and CDFW to determine whether "take" under FESA or CESA is likely to occur from implementation of the proposed project. If tortoises are present, the project proponent must obtain a Section 10(a)(1)(B) incidental take permit from the USFWS for activities on federal lands/actions and a section 2081 incidental take permit from the CDFW prior to conducting any ground disturbance.

We request that protocol-level surveys be performed at the area of the proposed project *and the alternatives that are being considered* in the DEIR. The results of these surveys should be published in the DEIR and should include density estimates for each alternative assessed.

To determine the full extent of impacts to tortoises and to facilitate compliance with the FESA and CESA, authorized biologist(s) must consult with the USFWS to determine the action area for this project. The USFWS defines "action area" the Code of Federal Regulations and their Desert Tortoise Field Manual

(USFWS 2009) as "all areas to be affected directly or indirectly by proposed development and not merely the immediate area involved in the action (50 CFR §402.02)."

#### **Response to Comment C2-9**

The commenter notes the need for several surveys to determine the extent of rare plant and animal populations occurring within the Project Site. See Response to Comment B-4 regarding Chambers Group's methodology in conducting and preparing the Biological Resources Report, provided in Appendix D of the Draft EIR. The results of the surveys are provided in Appendix D of the Draft EIR, and the results were summarized in **Section 4.3: Biological Resources** of the Draft EIR. See Response to Comment A-5 regarding pre-construction surveys for desert tortoise.

The commenter also requests that protocol-level surveys be performed for the alternatives considered. However, in accordance with CEQA Guidelines Section 15126.6(d) and as stated on page 5-3 of **Chapter 5: Alternatives Analysis**, each alternative is evaluated in sufficient detail to determine whether the overall environmental impacts would be less, similar, or greater than the corresponding impacts of the Project. The alternatives were evaluated in sufficient detail in **Chapter 5: Alternatives Analysis** of the Draft EIR. No further response is warranted.

#### Comment C2-10

The Council's persisting concern is that proponents of solar projects continue to identify a single site for development without any attempt to identify alternative sites. As such, when focused studies reveal significant accumulations of tortoises on the proponent's selected site, because there is only one site identified for the project, there is no opportunity to select an alternative site where impacts would be minimized.

Too often, a single impact footprint is identified, all surveys are restricted to that site, and no alternative sites are assessed, as required by NEPA. We are concerned that this project has already pre-determined the project footprint, and, that an undisclosed part of the footprint is designated tortoise critical habitat. As such, there are likely other areas of lower tortoise densities where impacts could be minimized. However, those areas would not be considered if the project footprint is predetermined before survey data are available. As such, we request that more than one site, preferably three, be identified and analyzed in the DEIR and that the alternative with the fewest impacts to tortoises be adopted for development.

If that is not feasible, we ask that the "action area" of the proposed project be several times larger than the project footprint so that those portions of the site with fewer tortoises could be selected. Proponents of the Gemini Solar Site in southern Nevada, for example, ignored these recommendations, and displaced more than 100 tortoises, when based on their presence-absence tortoise surveys, a shift of the site to the east would have avoided many of those animals.

It is current management to require desert tortoise protocol surveys (USFWS 2019) on a given site, but all too often translocation sites are ignored. We feel strongly that protocol surveys should occur on multiple or enlarged sites as given above and on all proposed translocation sites, assuming tortoises will be translocated.

## **Response to Comment C2-10**

The commenter expresses concern that other solar projects do not analyze an alternative site where impacts would be minimized. As stated in Response to Comment A-5, the potential for occurrence of a desert tortoise is unlikely. Nonetheless, Mitigation Measure BIO-12 would require a pre-construction survey to be conducted by a qualified biologist no more than 30 days prior to construction activities. Additionally, the Draft EIR analyzes an Offsite Alternative (Alternative 3 of the Draft EIR) on pages 5-12 through 5-17 of Chapter 5: Alternatives Analysis. As discussed on page 5-15 of the Draft EIR, the Offsite Alternative would result in similar impacts to those of the Project, and impacts would be reduced to less than significant with the implementation of mitigation measures. Therefore, as stated on page 5-1 of the Draft EIR, pursuant to CEQA Guidelines Section 15126.6, an EIR need not consider an alternative whose effects cannot be reasonably ascertained and whose implementation is remote and speculative. In accordance with CEQA Guidelines Section 15126.6(d) and as stated on page 5-3 of Chapter 5: Alternatives Analysis, each alternative is evaluated in sufficient detail to determine whether the overall environmental impacts would be less, similar, or greater than the corresponding impacts of the Project. The alternatives were evaluated in sufficient detail in Chapter 5: Alternatives Analysis of the Draft EIR. Additionally, the 500-foot buffer utilized for the desert tortoise survey is in accordance with USFWS Mojave Desert Tortoise Pre-project Survey Protocol methodology. Therefore, an additional survey area outside of the 500-foot buffer is not required. No further response is warranted.

## Comment C2-11

#### Mojave Desert Tortoise Impacts Analysis:

Analysis of Direct and Indirect Impacts: The alternatives analysis should include an economic analysis that provides the total cost of constructing the proposed project versus other alternatives, so the public can see how much the total cost of each alternative is. This would include an analysis of the costs of replacing all biological resources that would be lost from granting the proposed project including direct, indirect, and cumulative impacts. Please note, this analysis would include habitat replacement or restoration costs including the time needed to achieve full replacement, not just acquisition, management, monitoring, and adaptive management costs.

The DEIR should include a thorough analysis of the status and trend of the tortoise in the action area, tortoise conservation area(s), recovery unit(s), and range wide. Tied to this analysis should be a discussion of all likely sources of mortality for the tortoise and degradation and loss of habitat from implementation of solar development including construction, operation and maintenance, decommissioning, and restoration of the public lands. The DEIR should use the data from focused plant and wildlife surveys in their analysis of the direct, indirect, and cumulative impacts of the proposed project on the Mojave desert tortoise and its habitat, other listed species, and species of concern/special status species.

We expect that the DEIR will document how many acres would be impacted directly by solar arrays, access roads to the site, administration/maintenance buildings, parking areas, transmission towers, switchyards, laydown areas, internal access roads, access roads along gen-tie lines, a perimeter road, perimeter fencing, substations, battery storage (e.g., the project footprint). We also request that separate calculations document how many acres of desert tortoise habitats would be temporarily and permanently impacted both directly and indirectly (e.g., "road effect zone," etc.) by the proposed Project. As given below, these acreages should be based on field surveys for tortoises and not just on available models.

## **Response to Comment C2-11**

The commenter also notes that the alternatives analysis should include an economic analysis that provides the cost of constructing the Project versus the alternatives. Under CEQA, the lead agency is not required to analyze an economic impact associated with a project in the EIR; as CEQA Guidelines Section 15131(a) states: "Economic or social effects of a project shall not be treated as significant effects on the environment." Moreover, CEQA allows economic analysis in the administrative record only if the basis for infeasibility, and thus rejection of a mitigation or alternative, is economic, as described in CEQA Guidelines Sections 15091(a)(3) and 15364.

The commenter also requests the Draft EIR include a thorough analysis of the status and trends of the desert tortoise, as well as a discussion of likely sources of mortality for the tortoise and degradation and loss of habitat from solar development. The commenter also requests that the Draft EIR analyze direct, indirect, and cumulative impacts the Project may have on the desert tortoise. See Response to Comment A-14, B-4, and B-6. The commenter's requests on the Project's impacts on the desert tortoise are fully analyzed in **Section 4.3: Biological Resources** of the Draft EIR. No further response is warranted.

## Comment C2-12

*Road Effect Zone*: We request that the DEIR include information on the locations, sizes, and arrangements of roads to the proposed project and within it, who will have access to them, whether the access roads will be secured to prevent human access or vandalism, and if so, what methods would be used. The presence/use of roads even with low vehicle use has numerous adverse effects on the desert tortoise and its habitats that have been reported in the scientific literature. These include the deterioration/loss of wildlife habitat, hydrology, geomorphology, and air quality; increased competition and predation (including by humans); and the loss of naturalness or pristine qualities.

Vehicle use on new roads and increased vehicle use on existing roads equates to increased direct mortality and an increased road effect zone for desert tortoises. Road construction, use, and maintenance adversely affect wildlife through numerous mechanisms that can include mortality from vehicle collisions, and loss, fragmentation, and alteration of habitat (Nafus et al. 2013; von Seckendorff Hoff and Marlow 2002).

In von Seckendorff Hoff and Marlow (2002), they reported reductions in Mojave desert tortoise numbers and sign from infrequent use of roadways to major highways with heavy use. There was a linear relationship between traffic level and tortoise reduction. For two graded, unpaved roads, the reduction in tortoises and sign was evident 1.1 to 1.4 km (3,620 to 4,608 feet) from the road. Nafus et al. (2013) reported that roads may decrease tortoise populations via several possible mechanisms, including cumulative mortality from vehicle collisions and reduced population growth rates from the loss of larger reproductive animals. Other documented impacts from road construction, use, and maintenance include increases in roadkill of wildlife species as well as tortoises, creating or increasing food subsidies for common ravens, and contributing to increases in raven numbers and predation pressure on the desert tortoise.

Please include in the DEIR analyses, the five major categories of primary road effects to the tortoise and special status species: (1) wildlife mortality from collisions with vehicles; (2) hindrance/barrier to animal movements thereby reducing access to resources and mates; (3) degradation of habitat quality; (4) habitat loss caused by disturbance effects in the wider environment and from the physical occupation of land by the road; and (5) subdividing animal populations into smaller and more vulnerable fractions (Jaeger et al.

2005a, 2005b, Roedenbeck et al. 2007). These analyses should be at the population, recovery unit, and rangewide levels.

In summary, road establishment/increased use is often followed by various indirect impacts such as increased human access causing disturbance of species' behavior, increased predation, spread of invasive species that alters/degrades habitat, and vandalism and/or collection. The analysis of the impacts from road establishment and use should include cumulative effects to the tortoise with respect to nearby critical habitat and other TCAs, areas identified as important linkage habitat for connectivity between nearby critical habitat units/TCAs as these linkage areas serve as corridors for maintaining genetic and demographic connectivity between populations, recovery units, and rangewide (see *Desert Tortoise Habitat Linkages/Connectivity among Populations and Recovery Units* below). These and other indirect impacts to the Mojave desert tortoise should be analyzed in the DEIR from project construction, operations and maintenance, decommissioning, and habitat restoration.

#### **Response to Comment C2-12**

The comment provides information on road mortality to desert tortoise and requests that the Draft EIR include detailed information about roadways associated with the Project Site. See Response to Comment C1-15.

#### Comment C2-13

Desert Tortoise Habitat Linkages/Connectivity among Populations and Recovery Units: The DEIR should analyze how this proposed project will impact the movement of tortoises relative to linkage habitats/corridors. The DEIR should include an analysis of the minimum linkage design necessary for conservation and recovery of the desert tortoise (e.g., USFWS 2011, Averill-Murray et al. 2013, Hromada et al. 2020), and how the project, along with other existing projects, would impact the linkages between tortoise populations and all recovery units that are needed for survival and recovery. We strongly request that the environmental consequences section of the DEIR include a thorough analysis of this indirect effect (40 Code of Federal Regulations 1502.16) and appropriate mitigation to maintain the function of population connectivity for the Mojave desert tortoise and other wildlife species be identified. Similarly, please document how this project may impact proximate conservation areas, such as BLM-designated ACECs.

#### **Response to Comment C2-13**

The commenter requests that the Draft EIR include an analysis of Project impacts to tortoise linkage habitats/corridors. See Response to Comment C1-17.

#### Comment C2-14

<u>Jurisdictional Waters in California</u>: A jurisdictional waters analysis should be performed for all potential impacts to washes, streams, and drainages. This analysis should be reviewed by the CDFW as part of the permitting process and a section 1600 Streambed Alteration Agreement acquired, if deemed necessary by CDFW.

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#### **Response to Comment C2-14**

The comment notes that a jurisdictional waters analysis should be performed and for any potential impacts to washes, streams, and drainages. As described in pages 4.3-11 and 4.3-12 of **Section 4.3: Biological Resources** of the Draft EIR, an assessment of jurisdictional waters regulated by the United States Army Corps of Engineers (USACE), Regional Water Quality Control Board (RWQCB), and CDFW was conducted to determine the potential for jurisdictional waters to be found within the Project Site. See Response to Comment A-15.

## Comment C2-15

#### **Mitigation Plans**

The DEIR should include effective mitigation for all direct, indirect, and cumulative effects to the tortoise and its habitats. The mitigation should use the best available science with a commitment to implement the mitigation commensurate to impacts to the tortoise and its habitats. Mitigation should include a fullydeveloped desert tortoise translocation plan, including protection of tortoise translocation area(s) from future development and human disturbance in perpetuity; raven management plan; non-native plant species management plan; fire prevention plan; compensation plan for the degradation and loss of tortoise habitat that includes protection of the acquired, improved, and restored habitat in perpetuity for the tortoise from future development and human use; and habitat restoration plan when the lease is terminated and the proposed project is decommissioned.

All plans should be provided in the DEIR so the public and the decisionmaker can determine their adequacy (i.e., whether they are scientifically rigorous and would be effective in mitigating for the displacement and loss of tortoises and degradation and loss of tortoise habitat from project implementation). Too often, such plans are alluded to in the draft environmental document and promised later, which does not allow the reviewers to assess their adequacy, which is unacceptable. If not available as appendices in draft documents, all indicated plans must be published in the final environmental documents. Their inclusion is necessary to determine their adequacy for mitigating direct, indirect, and cumulative impacts, and monitoring for effectiveness and adaptive management regarding the desert tortoise. If these plans are not provided, it is not possible for the County, other decisionmakers, and the interested public to determine the environmental consequences of the project to the tortoise.

These mitigation plans should include an implementation schedule that is tied to key actions of the construction, operation, maintenance, decommissioning, and restoration phases of the project so that mitigation occurs concurrently with or in advance of the impacts. The plans should specify success criteria, include an effectiveness monitoring plan to collect data to determine whether success criteria have been met, and identify/implement actions that would be required if the mitigation measures do not meet the success criteria.

#### **Response to Comment C2-15**

The commenter suggests the Draft EIR should include mitigation for all direct, indirect, and cumulative impacts to tortoise and tortoise habitats. See Response to Comment A-5.

The commenter also requests that plans be provided in the Draft EIR. **Chapter 2: Project Description** of the Draft EIR provides a detailed analysis of the Project, including the Project's location, site characteristics, and Project facilities. The figures and information provided in the Draft EIR, particularly

the maps and details provided in Appendix D: Biological Resources Report of the Draft EIR, provide the information necessary to analyze the Project's impacts on direct, indirect, and cumulative impacts. See also Response to Comment A-14, B-4, and B-6.

#### Comment C2-16

<u>Translocation Plan - Translocated Tortoises & Translocation Sites</u>: How many tortoises will be displaced by the proposed project? How long will translocated tortoises be monitored? Will the monitoring report show how many of those tortoises lived and died after translocation and over time? Are there any degraded habitats or barren areas that may impair success of the translocation? Are there incompatible human uses in the new translocation area that need to be eliminated or managed to protect newlytranslocated tortoises? Were those translocation areas sufficiently isolated that displaced tortoises were protected by existing or enhanced land management? How will the proponent minimize predation of translocated tortoises and avoid adverse climatic conditions, such as low winter rainfall conditions that may exacerbate translocation success? Were tortoises translocated to a site where they would be protected from threats (e.g., off-highway vehicles, future development, etc.)? These questions and others should be answered in DEIR.

The project proponent should implement the USFWS' Translocation Guidance (USFWS 2020) and coordinate translocation with CDFW and USFWS. In addition, the proponent's project-specific translocation plan should be based on current data and developed using lessons learned from earlier translocation efforts (e.g., increased predation, drought). (see *Desert Tortoise Translocation Bibliography Of Peer-Reviewed Publications*<sup>1</sup> in the footnote).

The Translocation Plan should include implementation of a science-based monitoring plan approved by the Desert Tortoise Recovery Office that will accurately access these and other issues to minimize losses of translocated tortoises and impacts to their habitat. For example, the health of tortoises may be jeopardized if they are translocated during drought conditions, which is known to undermine translocation successes (Esque et al. 2010). If drought conditions are present at the time of project development, we request that the proponent confer with the USFWS/CDFW immediately prior to translocating tortoises and seek input on ways to avoid loss of tortoises due to stressors associated with drought. One viable alternative if such adverse conditions exist is to postpone site development until which time conditions are favorable to enhance translocation success.

Moving tortoises from harm's way, the focus of the Translocation Guidance, does not guarantee their survival and persistence at the translocation site, especially if it will be subject to increased human use or development. In addition to the Translocation Guidance and because translocation sites are mitigation for the displacement of tortoises and loss of habitat, these sites should be managed for the benefit of the tortoise in perpetuity. Consequently, a conservation easement or other durable legal designation should be placed on the translocation sites. The project proponent should fully fund management of the site to enhance it for the benefit of the tortoise in perpetuity.

Footnote 1: <u>https://www.fws.gov/nevada/desert\_tortoise/documents/reports/2017/peer-reviewed\_translocation\_bibliography.pdf</u>

#### **Response to Comment C2-16**

The commenter requests information on the translocation of desert tortoise and recommends a translocation plan be implemented. As stated on page 4.3-15 of **Section 4.3: Biological Resources** of the

Draft EIR, no live desert tortoises, active desert tortoise burrows, or other desert tortoise sign were identified in the Survey Area during the desert tortoise surveys. As recommended by the CDFW, Mitigation Measure BIO-12 shall require a pre-construction survey to be conducted no more than 30 days prior to construction activities. In the unlikely event that desert tortoise are observed on the Project Site during pre-construction surveys, the Applicant shall consult with CDFW and USFWS to determine compliance with the State (CEQA) and federal (FESA) law. See Response to Comment A-5 regarding the desert tortoise.

## Comment C2-17

<u>Tortoise Predators and a Predator Management Plan</u>: Common ravens are known predators of the Mojave desert tortoise and their numbers have increased substantially because of human subsidies of food, water, and sites for nesting, roosting, and perching to hunt (Boarman 2003). Coyotes and badgers are also predators of tortoises. Because ravens can fly at least 30 miles in search of food and water daily (Boarman et al. 2006) and coyotes can travel an average of 7.5 miles or more daily (Servin et al. 2003), this analysis should extend out at least 30 miles from the proposed project site.

The DEIR should analyze if this new use would result in an increase in common ravens and other predators of the desert tortoise in the action area. During construction, operations and maintenance, decommissioning, and restoration phases of the proposed project, the County should require science-based management of common raven, coyote, and badger predation on tortoises in the action area. This would include the translocation sites.

For local impacts, the Predator Management Plan should include reducing/eliminating human subsidies of food and water, and for the common raven, sites for nesting, roosting, and perching to address local impacts (footprint of the proposed project). This includes buildings, fences, and other vertical structures associated with the project site. In addition, the Predator Management Plan should include provisions that eliminate the pooling of water on the ground or on roofs. The Predator Management Plan should include science-based monitoring and adaptive management throughout all phases of the project to collect data on the effectiveness of the Plan's implementation and implement changes to reduce/eliminate predation on the tortoise if existing measures are not effective.

For regional and cumulative impacts, the County should require the project proponent to participate in efforts to address regional and cumulative impacts. For example, the project proponent should be required to contribute to the National Fish and Wildlife Foundation's Raven Management Fund to help mitigation for regional and cumulative impacts. Unfortunately, this Fund that was established in 2010 has not revised its per acre payment fees to reflect increased labor and supply costs during the past decade to provide for effective implementation. The National Fish and Wildlife Foundation should revise the per acre fee.

We request that for any of the transmission options, the project use infrastructure (particularly towers) that prevent raven nesting and perching for hunting. For example, for gen-ties/transmission lines the tubular design pole with a steep-pointed apex and insulators on down-sloping cross arms is preferable to lattice towers, which should not be used. New fencing should not provide resources for ravens, like new perching and nesting sites.

According to Appendix A of Common Raven Predation on the Desert Tortoise (USFWS 2010), "The BLM's biological assessments and the USFWS' biological opinions for the California Desert Conservation Area (CDCA) plan amendments reiterate the need to address the common raven and its potential impacts on desert tortoise populations." Please ensure that all standard measures to mitigate the local, regional, and

cumulative impacts of raven predation on the tortoise are included in this DEIR, including developing a raven management plan for this specific project. USFWS (2010) provides a template for a project-specific management plan for common ravens. This template includes sections on construction, operation, maintenance, and decommissioning (including restoration) with monitoring and adaptive management during each project phase (USFWS 2010).

#### **Response to Comment C2-17**

The comment requests that a predator management plan be implemented specifically to reduce predation of desert tortoise by ravens. As described in Mitigation Measure BIO-12, a Raven Management Plan shall be implemented to offset potential predatorial impacts from ravens, which are known predators of desert tortoises, and to decrease potential threats to desert tortoise recovery. See Response to Comment A-5 and B-10.

## Comment C2-18

<u>Fire Prevention/Management Plans</u>: The proposed project could include numerous infrastructure components that have been known to cause fires. Lithium-ion batteries at the project site have the potential to explode and cause fires and are not compatible with using water for fighting fires. Photovoltaic panel malfunctions have caused vegetation to burn onsite. We request that the DEIR include a Fire Prevention Plan in addition to a Fire Management Plan specifically targeting methods to deal with explosions/fires produced by these batteries/panels as well as other sources of fuel and explosives on the project site.

#### **Response to Comment C2-18**

The commenter requests the Draft EIR include a Fire Prevention Plan in addition to a Fire Management Plan. As stated on page 4.7-14 of **Section 4.7: Hazards and Hazardous Materials** of the Draft EIR, the Project would be required to comply with the San Bernardino County Fire Protection District (SBCFPD) Code, 2019 California Fire Code (CFC), National Fire Code, and International Fire Code. These regulations implement state-of-the-art development and performance standards that ensure the safe installation, operations, and maintenance of utility scale battery energy storage systems (BESS). The Project would also implement fire and safety features at the Module Level, BESS Container Level, Site Level, and Operational Level. Compliance with the SBCFPD Fire Code, 2019 CFC, National Fire Code, and International Fire Code, as well as inclusion of the Project's fire and safety features, would reduce the potential for a wildland fire event to less than significant levels.

#### Comment C2-19

<u>Habitat Compensation Plan</u>: When the project proponent seeks an incidental take permit from the CDFW, because their project would result in take of a listed species under CESA, compensatory mitigation would be required. The mitigation lands must be occupied by the species and secured and managed in perpetuity for the listed species. Hence, the DEIR should include a Habitat Compensation Plan for the loss/degradation of habitat. This plan should calculate how it will fully mitigate for the impacts of the proposed project including direct, indirect, cumulative, and temporal impacts.]

## **Response to Comment C2-19**

The commenter requests that a Habitat Compensation Plan be developed. A Habitat Compensation Plan is not currently required as no take has occurred. If a take were to potentially occur, as stated on page 4.3-5 of **Section 4.3: Biological Resources** of the Draft EIR, consultation with CDFW is required for projects with the potential to affect listed or candidate species. CESA prohibits the "take" of these species unless an Incidental Take Permit (ITP) is granted. Under CFGC Section 2081, CDFW can authorize the "take" of a listed species if the "take" of the listed species is incidental to carrying out an otherwise lawful project that has been approved under CEQA. Section 2080.1 allows for "take" once an applicant obtains a federal ITP which can be approved (Consistency Determination Letter) within 30 days by the CDFW Director. If the federal Incidental Take Statement is determined not to be consistent with CESA, then application for a State ITP (Section 2081) is required. See Response to Comment B-8 regarding impacts to suitable habitat and Mitigation Measure BIO-8 as it relates to compensation for habitat restoration.

## Comment C2-20

#### **Climate Change and Non-native Plants**

<u>Climate Change</u>: We request that the DEIR address the effects of the proposed action on climate change warming and the effects that climate change may have on the proposed action. For the latter, we recommend including: an analysis of habitats within the project area that may provide refugia for tortoise populations; an analysis of how the proposed action would contribute to the spread and proliferation of nonnative invasive plant species; how this spread/proliferation would affect the desert tortoise and its habitats (including the frequency and size of human-caused fires); and how the proposed action may affect the likelihood of human-caused fires. We strongly urge that the County require the project proponent to develop and implement a management and monitoring plan using this analysis and other relevant data that would reduce the transport to and spread of nonnative seeds and other plant propagules within the project area and eliminate/reduce the likelihood of human-caused fires. The plan should integrate vegetation management with fire prevention and fire response.

#### **Response to Comment C2-20**

The commenter requests the Draft EIR address the effects of the Project on climate change. See Response to Comment C1-8.

#### Comment C2-21

<u>Impacts from Proliferation of Nonnative Plant Species and Management Plan</u>: The DEIR should include an analysis of how the proposed project would contribute to the spread and proliferation of non-native invasive plant species; how this spread/proliferation would affect the desert tortoise and its habitats (including the frequency and size of human-caused fires); and how the proposed project may affect the frequency, intensity, and size of human-caused and naturally occurring fires. For reasons given in the previous paragraph, we strongly urge that the County require the project proponent to develop and implement a management and monitoring plan for nonnative plant species. The plan should integrate management/enhancement of native vegetation with fire prevention and fire response to wildfires.

## **Response to Comment C2-21**

The commenter requests the Draft EIR address potential impacts the Project may have on the proliferation of non-native species. As stated on page 4.3-18 of **Section 4.3: Biological Resources** of the Draft EIR, the Project would be consistent with Development Code Section 88.01.060 to conserve specified desert plant species. Additionally, Mitigation Measure BIO-3 would implement an environmental training program which would include training for protection afforded to special-status wildlife species and sensitive habitats, as well as avoiding and/or minimizing impacts from the project.

## Comment C2-22

#### Hydrology and Water Quality

Regarding water quality of surface and ground water, the DEIR should include an analysis of the impacts of water acquisition, use, and discharge for panel washing, potable uses, and any other uses associated with this proposed project, and cumulative impacts from water use and discharge on native perennial shrubs and annual vegetation used for forage by the Mojave desert tortoise, including downstream and downstream impacts. The DEIR should analyze how much water is proposed to be used during construction and operation; how any grading, placement, and/or use of any project facilities will impact downstream/downslope flows that are reduced, altered, eliminated, or enhanced. This analysis should include impacts to native and non-native vegetation and habitats for wildlife species including the Mojave desert tortoise, for which washes are of particular importance for feeding, shelter, and movements.

Therefore, we request that the DEIR include an analysis of how water use during construction, operations and maintenance, decommissioning, and habitat restoration will impact the levels of ground water in the region. These levels may then impact surface and near-surface flows at springs, seeps, wetlands, pools, and groundwater-dependent vegetation in the basin. The analyses of water quality and quantity of surface and ground water should include appropriate measures to ensure that these impacts are fully mitigated, preferably beginning with avoidance and continuing through CEQ's other forms of mitigation (40 CFR 1508.20).

#### **Response to Comment C2-22**

The commenter requests an analysis of the impacts of water acquisition, use, and discharge. The County requires a Drainage Study as part of the Conditional Use Permit application process, as well as a Stormwater Pollution Prevention Plan (SWPPP) at the grading permit stage. Additionally, pages 6-11 through 6-13 of **Chapter 6: Other CEQA Considerations** address the Project's impacts to hydrology and water quality. As analyzed therein, the Project would not violate any water quality standards or waste discharge requirements, and impacts would be less than significant. Pages 6-18 through 6-19 address the Project's impacts on water use and discharge. As discussed therein, the Project would have sufficient water supplies available to serve the Project, and impacts would be less than significant. The Project would also not conflict with or obstruct implementation of the County's Desert Groundwater Management Ordinance or a future water quality control plan or sustainable groundwater management plan. The Project would also produce minimal wastewater as a result of panel washing for Project maintenance. Therefore, the Project would have a less than significant impact on hydrology, water quality, water, and groundwater.

## Comment C2-23

#### **Cumulative Effects**

With regards to cumulative effects, the DEIR should list and analyze all project impacts within the region including future state, federal, and private actions affecting listed species on state, federal, and private lands. The Council asks that the relationship between this proposed project and the DRECP (BLM 2015) be analyzed, as the project area does not appear to be in a designated Development Focused Area (DFA) identified in the final Record of Decision by the BLM for the DRECP (BLM 2016). We also expect that the environmental documents will provide a detailed analysis of the "heat sink" effects of solar development on adjacent desert areas and particularly Mojave desert tortoise in addition to climate change.

#### **Response to Comment C2-23**

See Response to Comment B-6 regarding cumulative impacts. See Response to Comment C1-14 regarding the heat sink effect.

#### Comment C2-24

We appreciate this opportunity to provide scoping comments on this project and trust they will help protect tortoises during any resulting authorized activities. Herein, we reiterate that the Desert Tortoise Council wants to be identified as an Affected Interest for this and all other projects funded, authorized, or carried out by the County that may affect species of desert tortoises, and that any subsequent environmental documentation for this project is provided to us at the contact information listed above. Additionally, we ask that you respond in an email that you have received this comment letter so we can be sure our concerns have been registered with the appropriate personnel and office for this project.

#### **Response to Comment C2-24**

The commenter concludes their comment letter. As this comment does not raise any specific issues with respect to the content and adequacy of the Draft EIR, no further response is warranted.

[The remainder of the letter includes citations that are referenced throughout the comment letter.]

## CHAPTER 3 – CORRECTIONS AND ADDITIONS TO THE DRAFT EIR

In accordance with the CEQA Guidelines Section 15132(a), this section of the Final EIR provides changes to the Draft EIR that have been made to clarify, correct, or supplement the information provided in that document. These changes and additions are to respond to comments received on the Draft EIR during the public review period. The changes described in this Chapter do not add significant new information to the Draft EIR that would require recirculation of the Draft EIR. More specifically, CEQA requires recirculation of a Draft EIR only when "significant new information" is added to a Draft EIR after public notice of the availability of the Draft EIR has occurred (refer to California Public Resources Code [PRC] Section 21092.1 and CEQA Guidelines Section 15088.5), but before the EIR is certified. CEQA Guidelines Section 15088.5 specifically states:

New information added to an EIR is not 'significant' unless the EIR is changed in a way that deprives the public of a meaningful opportunity to comment upon a substantial adverse environmental effect of the project or a feasible way to mitigate or avoid such an effect (including a feasible project alternative) that the project's proponents have declined to implement. 'Significant new information' requiring recirculation includes, for example, a disclosure showing that:

- A new significant environmental impact would result from the project or from a new mitigation measure proposed to be implemented.
- A substantial increase in the severity of an environmental impact would result unless mitigation measures are adopted to reduce the impact to a level of insignificance.
- A feasible project alternative or mitigation measure considerably different from others previously analyzed would clearly lessen the significant environmental impacts of the project, but the project's proponents decline to adopt it.
- The draft EIR was so fundamentally and basically inadequate and conclusory in nature that meaningful public review and comment were precluded.

CEQA Guidelines Section 15088.5 also provides that "[re]circulation is not required where the new information added to the EIR merely clarifies or amplifies or makes insignificant modifications in an adequate EIR... A decision not to recirculate an EIR must be supported by substantial evidence in the administrative record."

As demonstrated in this Final EIR, the changes presented in this Chapter do not constitute new significant information warranting recirculation of the Draft EIR as set forth in CEQA Guidelines Section 15088.5. Rather, the Draft EIR is comprehensive and has been prepared in accordance with CEQA.

Changes to the Draft EIR are indicated below under the respective EIR section heading, page number, and paragraph. Paragraph reference is to the first full paragraph on the page. Deletions are shown with strikethrough and additions are shown with <u>double underline</u>.

3-1

#### **3.1 EXECUTIVE SUMMARY**

1. Page ES-5, the third row under Biological Resources, the third column is revised as follows:

Mitigation Measure BIO-2 Mitigation Measure BIO-3 Mitigation Measure BIO-4 Mitigation Measure BIO-5 Mitigation Measure BIO-6 Mitigation Measure BIO-7 <u>Mitigation Measure BIO-12</u>

2. Page ES-6, the first row, the third column is revised as follows:

Mitigation Measure BIO-3 Mitigation Measure BIO-4 Mitigation Measure BIO-5 Mitigation Measure BIO-6 Mitigation Measure BIO-7 <u>Mitigation Measure BIO-12</u>

#### **3.2 SECTION 4.3: BIOLOGICAL RESOURCES**

1. Page 4.3-17, the first paragraph under Threshold (d) is revised as follows:

As mentioned in threshold a) above,... To avoid impacts during construction Mitigation Measures BIO-3, BIO-5, BIO-6, and BIO-7, and BIO-12 would be implemented.

2. Page 4.3-18, the first paragraph is revised as follows:

With implementation of **Mitigation Measures BIO-2** through **BIO-7** <u>and **BIO-12**</u>, impacts to the movement of wildlife species or the use of native wildlife nursery sites would be reduced to less than significant.

3. Page 4.3-18, the second paragraph under Threshold (e) is revised as follows:

With implementation of **Mitigation Measures BIO-1** through **BIO-7** <u>and **BIO-12**</u>, the Project would be consistent with the Renewable Energy and Conservation Element goals and policies to collaborate with appropriate federal and State agencies to facilitate mitigation/habitat conservation offsets on public lands where suitable habitat is available because the Project would not interfere with the County's programs to...

4. Page 4.3-18, the third paragraph under Threshold (e) is revised as follows:

With implementation of **Mitigation Measures BIO-1** through **BIO-7** <u>and **BIO-12**</u>, the Project would be consistent with Development Code Section 88.01.060 to conserve specified desert plant species as the Project would not impact special-status plants.

3-2

5. Page 4.3-19, the first paragraph is revised as follows:

With implementation of **Mitigation Measures BIO-1** through **BIO-7** <u>and **BIO-12**</u>, impacts would be reduced to less than significant.

6. Pages 4.3-19 and 4.3-20, Mitigation Measure BIO-3 is revised as follows:

**Mitigation Measure BIO-3:** An environmental training program shall be developed and presented to all crew members prior to the beginning of all project construction. The training shall describe special-status wildlife species and sensitive habitats that could occur within project work areas, protection afforded to these species and habitats, and avoidance and minimization measures required to avoid and/or minimize impacts from the project. <u>The training shall include a discussion on the reduction of trash and the elimination any food and standing water originating from a human source that may attract wildlife, including ravens, to the site.</u> The training program will be approved by a qualified biologist. Records of training will be kept on-site.

7. Page 4.3-20, Mitigation Measure BIO-4 is revised as follows:

Mitigation Measure BIO-4: Vegetation trimming/crushing shall take place outside the general bird breeding season (February 15 to September 15), to the maximum extent practical. If this is not possible, Regardless of the time of year, prior to ground-disturbing activities, a qualified biologist shall conduct a nesting bird survey to comply with CDFW Code 3503 and 3503.5 and the Migratory Bird Treaty Act. The survey shall occur no more than 30 three (3) days prior to initiation of proposed project activities, and any and shall include any potential nesting habitat (including trees, shrubs, the ground, or nearby structures). Any occupied passerine and/or raptor nests occurring within or adjacent to the proposed project area or the Project's zone of influence (generally 100-300 feet) shall be delineated and a no-disturbance buffer zone (as determined by the avian biologist) shall be established and maintained during Project activities. Additional follow-up surveys may be required by the resource agencies and the County of San Bernardino. If an active nest is identified, an avoidance buffer zone around occupied nests (as determined by the avian biologist) shall be maintained during physical ground disturbing activities. The buffer zone shall be sufficient in size to prevent impacts to the nest. A qualified biologist shall monitor active nests to determine whether construction activities are disturbing nesting birds or nestlings. If a nest shows signs of disturbance as determined by a qualified biologist, adaptive management methods may be used to ensure that the buffer distances are effective and no nests are disturbed. Once nesting has ceased and the fledglings are no longer using the nest area as confirmed by a gualified biologist, the buffer may be removed. A nesting bird survey report shall be provided to the County of San Bernardino and CDFW. If an active nest is encountered during construction, construction shall stop immediately until a qualified biologist can determine the status of the nest, avoidance buffer and when work can proceed without risking violation to State or federal laws.

8. Page 4.3-20, Mitigation Measures BIO-6 and BIO-7 are revised as follows:

**Mitigation Measure BIO-6:** <u>A Burrowing Owl Mitigation and Monitoring Plan shall be developed</u> and submitted to CDFW for review 60 days prior to the start of ground disturbing activities. No less than 14 days <u>Pp</u>rior to <del>construction</del> any ground disturbance activities</u>, a burrowing owl (<u>Athene cunicularia</u>) Take Avoidance Survey shall be conducted by a qualified biologist <u>in</u> accordance with the California Department of Fish and Wildlife 2012 Staff Report on Burrowing <u>Owl Mitigation</u>. The survey shall be conducted no less than 14 days prior to initiating ground disturbance activities. If burrowing owls are determined to be present where Project activities will occur, minimization and avoidance measures shall be required including but not limited to a final survey within 24 hours prior to ground disturbance. site-specific non-disturbance buffer zones shall be established by the qualified biologist based on monitoring and assessments of the Project's effects on the burrowing owls. If it is not possible to avoid active burrows during the nonbreeding season, passive relocation shall be implemented once approved through coordination with CDFW.

**Mitigation Measure BIO-7:** <u>A Desert Kit Fox Monitoring and Mitigation Plan shall be prepared and</u> <u>submitted to CDFW for review 60 days prior to the start of ground disturbing activities. Prior to</u> <u>commencing ground-disturbing activities, a qualified biologist shall conduct a focused survey for</u> <u>desert kit fox (*Vulpes macrotis*), including assessment of all burrows in the Project area. If <u>potential burrows are located</u>, they shall be monitored by the qualified biologist. If any burrow/burrow complex is determined to house desert kit fox and the burrow/burrow complex is unavoidable, exclusionary devices (e.g., one-way doors) <del>should</del> <u>shall</u> be fitted on the active burrow openings, and once the burrow has been confirmed vacant <u>as determined by the qualified</u> <u>biologist and in consultation with CDFW</u>, the burrow <del>should</del> <u>shall</u> be carefully excavated to prevent re-entry/re-use of the burrow. These exclusion/excavation activities <del>should</del> <u>shall</u> only occur during the non-breeding season (July 2 to January 15). If construction will occur during the breeding season, any active burrow/burrow complex that is unavoidable <del>should</del> <u>shall</u> be provided a 500-foot no work buffer until the end of breeding season (July 1) or until the burrow has been determined to be inactive (and does not contain pups) by the qualified biologist.</u>

9. Page 4.3-21, Mitigation Measure BIO-12 is added as follows:

Mitigation Measure BIO-12: Pre-construction surveys for desert tortoise (*Gopherus agassizii*) shall be conducted by a qualified biologist no more than 30 days prior to construction activities. If desert tortoise are observed within the Project Site, the Applicant shall consult with CDFW and USFWS to determine compliance with State (CESA) and federal (FESA) law. Additionally, if desert tortoise are determined to be present, a Raven Management Plan shall be prepared, approved by CDFW and USFWS, and implemented to offset potential predatorial impacts to tortoises.

10. Page 4.3-21, the last paragraph is revised as follows:

With the implementation of **Mitigation Measures BIO-1** through **BIO-<u>1112</u>**, the Project's impacts on biological resources would be reduced to less than significant.

## 3.3 SECTION 4.4: CULTURAL RESOURCES

1. Page 4.4-15, Mitigation Measure CUL-1 is revised as follows:

**Mitigation Measure CUL-1:** Prior to the initiation of ground-disturbing activities, the Project Applicant and construction manager shall conduct a Worker Education Awareness Program (WEAP) to alert field personnel to the possibility of buried prehistoric or historic cultural deposits. Development of the WEAP shall include consultation with a Qualified Archaeologist meeting the Secretary of the Interior standards <u>and the Colorado River Indian Tribes</u>. The WEAP shall provide an overview of potential significant archaeological resources that could be encountered during ground disturbing activities, including how to identify prehistoric or historic cultural deposits, to facilitate worker recognition, avoidance, and subsequent immediate notification to the Qualified

Archaeologist. Prior to ground disturbing activities, the Project Applicant shall provide evidence to the San Bernardino County Land Use Services Department that construction personnel have conducted a WEAP. Documentation shall be retained demonstrating that construction personnel attended the training.

<u>An archaeological monitor shall be present for all ground-disturbing activity conducted during Project</u> <u>implementation.</u> In the event that cultural resources are discovered during Project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease, and a Qualified Archaeologist <u>meeting the Secretary of the Interior standards</u> shall be hired to assess the find. The Qualified Archaeologist shall have the authority to stop or divert construction excavation as necessary. Work on the other portions of the Project outside of the buffered area may continue during this assessment period. Additionally, the <u>applicable Colorado River</u> Indian Tribe<u>s</u> (as described in **Mitigation Measure TCR-1**) shall be contacted regarding any pre-contact and/or historic-era finds and be provided information after the Qualified Archaeologist makes their initial assessment of the nature of the find, so as to provide Tribal input with regard to significance and treatment.

2. Page 4.4-15, Mitigation Measure CUL-2 is revised as follows:

**Mitigation Measure CUL-2:** If significant pre-contact and/or post contact cultural resources, as defined by CEQA, are discovered, and avoidance cannot be ensured, the Qualified Archaeologist shall develop a Monitoring and Treatment Plan, the drafts of which shall be provided to the County Planning Division and applicable Indian Tribe for review and comment. The Qualified Archaeologist shall monitor the remainder of the Project and implement the plan accordingly. Prior to Project implementation and the start of ground-disturbing activities, a Monitoring and Treatment Plan (MTP) shall be created by a Qualified Archaeologist meeting the Secretary of the Interior standards in coordination with the Colorado River Indian Tribes and the County Planning Division that outlines process for identification and treatment of inadvertently discovered cultural resources. The MTP shall include requirements outlined in **Mitigation Measures CUL-1, TCR-1, and TCR-2** and be followed throughout the life of the Project.

#### 3.4 SECTION 4.10: TRIBAL CULTURAL RESOURCES

1. Page 4.10-3, the first three paragraphs are revised as follows:

CRIT did not provide written materials or maps subsequent to the two meetings <u>that identified</u> <u>specific boundaries or details related to known tribal cultural resources</u>, as they opted to provide <u>information to the County verbally to ensure the information remained confidential</u>.

The County received a response from MBMI in response to the NOP on June 1, 2022 wherein the MBMI noted that the Project is located near ancestral territory and traditional use area of the Cahuilla and Serrano people of the MBMI. The County provided a copy of the geotechnical report to MBMI for their review.

While CRIT and MBMI did not identify any <u>specific boundaries or detailed information related to</u> known tribal cultural resources (as defined in PRC Section 21074) within the Project Site <u>during</u> <u>consultation with the County</u>, <u>CRIT highlighted concerns related to identified archaeological sites</u> <u>and the potential for additional buried cultural resources that may be tribal cultural resources</u> <u>within the Project area. As such</u>, mitigation measures to be implemented during Project
construction are <u>were</u> included below and in Section 4.4, *Cultural Resources<u></u>*, of the Draft EIR to address concerns related to the potential of tribal cultural resources that could be impacted during Project construction.

The County received a letter from CRIT in response to the Draft EIR on January 23, 2023, wherein <u>CRIT identified continued concerns with potential impacts to tribal cultural resources as a result</u> of the Project, the need to update Project mitigation, and the need to meet in-person to formally consult on the Project. A consultation meeting between County and CRIT representatives took place in-person on August 16, 2023 at the BLM offices in Palm Springs to discuss CRIT's concerns and potential updates to the Project mitigation measures for tribal cultural resources. In response to concerns and feedback provided by CRIT during consultation, the mitigation measures for tribal cultural resources have been revised within the Mitigation Monitoring and Reporting Program (MMRP).

The County received a letter from CRIT in response to the updates made by the County to the Project mitigation measures on October 30, 2023, wherein CRIT identified continued concerns to tribal cultural resources as a result of the Project, requested the need to further update Project mitigation, asserted that nothing short of an in-person meeting at an out-of-state location would be considered consultation per CRIT's consultation policy. While the County appreciates CRIT's latest comments on proposed mitigation measures, some of which have been modified based upon comments from CRIT, the County has determined that the updated mitigation measures proposed in the Final EIR are sufficient to mitigate impacts to tribal cultural resources. Because the parties have been unable to mutually agree on mitigation, the County has also considered mitigation identified in Public Resources Code Section 21084.3(b) and, where feasible, have included said measures in the Final EIR. It should also be noted that CRIT's consultation policy would continue to prevent the County from concluding consultation unless the County complied with the requirements described above. For these reasons, County concluded consultation with CRIT via a letter submitted to CRIT on December 5, 2023.

2. Page 4.10-8, the second paragraph is revised as follows:

Nonetheless, the potential exists that there may be undiscovered <u>consultation revealed that there</u> <u>is potential for</u> undiscovered tribal cultural resources that could <u>to</u> be unearthed during grounddisturbing activities during Project construction. Therefore, as there is potential for grounddisturbing activities to encounter buried or unknown tribal cultural resources, impacts would be considered potentially significant. The Project would be required to implement **Mitigation Measures TCR-1 and TCR-2** to reduce potential impacts to tribal cultural resources to a less-thansignificant level during Project construction.

3. Pages 4.10-9 and 4.10-10, Mitigation Measure TCR-1 is revised as follows:

**Mitigation Measure TCR-1:** A Native American tribal monitor from an applicable representing the <u>Colorado River</u> Indian Tribes shall be <del>contacted,</del> present for all ground-disturbing activity <u>conducted during Project implementation</u>. <u>aAs</u> detailed in Mitigation Measure CUL-1, <u>the</u> <u>Colorado River Indian Tribes shall be contacted</u> if any pre-contact and/or historic-era cultural resources are discovered during Project implementation and be provided information regarding the nature of the find so as to provide Tribal input with regards to significance and treatment. Should the discovery be deemed significant, as defined by the California Environmental Quality

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Act (CEQA), a Monitoring and Treatment Plan, as detailed in Mitigation Measure CUL-2, shall be created by a Qualified Archaeologist, in coordination with an applicable Indian Tribe and the County Planning Division, and all subsequent finds shall be subject to this Plan. This Plan shall allow for a monitor to represent the applicable Indian Tribe for the remainder of the Project, should the applicable Indian Tribe elect to place a monitor on site. <u>The Native American monitor shall follow the processes outlined in the Monitoring and Treatment Plan (MTP) drafted by a Qualified Archaeologist in coordination with the Colorado River Indian Tribes and County Planning Division, as required in **Mitigation Measure CUL-2**.</u>

If a pre-contact cultural resource is discovered during Project implementation, the following actions are required:

- (a) Ground-disturbing activities shall be suspended 60 feet around the resource(s), and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed;
- (b) The Applicant shall develop a research design that shall include a plan to evaluate the resource for significance under CEQA criteria, and the County and applicable the Colorado <u>River</u> Indian Tribes shall review to indicate concurrence. Representatives from the applicable <u>Colorado River</u> Indian Tribes, the Applicant, and the County shall confer regarding the research design, as well as any testing efforts needed to delineate the resource boundary. Following the completion of evaluation efforts, all parties shall confer regarding the resource's archaeological significance, its potential as a Tribal Cultural Resource (TCR), and avoidance (or other appropriate treatment) of the discovered resource.

Should any significant resource and/or TCR not be a candidate for avoidance or preservation in place, and the removal of the resource(s) is necessary to mitigate impacts, the research design shall include a comprehensive discussion of sampling strategies, resource processing, analysis, and reporting protocols/obligations. Removal of any cultural resource(s) shall be conducted with the presence of a Tribal monitor representing the Colorado River Indian Tribes unless otherwise decided by the applicable Colorado River Indian Tribes. All plans for analysis shall be reviewed and approved by the Applicant and the applicable Colorado River Indian Tribes prior to implementation, and all removed material shall be temporarily curated on-site. The applicable Colorado River Indian Tribes shall indicate if it is the preference of the applicable Colorado River Indian Tribes that removed cultural material be reburied as close to the original find location as possible. However, should reburial within/near the original find location during Project implementation not be feasible, then a reburial location for future reburial shall be decided upon by the applicable Colorado River Indian Tribes, the landowner, and the County, and all finds shall be reburied within this location. Additionally, in this case, reburial shall not occur until all grounddisturbing activities associated with the Project have been completed, all monitoring has ceased, all cataloging and basic recordation of cultural resources have been completed, and a final monitoring report has been issued to the County, CHRIS, and the applicable Colorado River Indian Tribes. All reburials are subject to a reburial agreement that shall be developed between the landowner and the applicable Colorado River Indian Tribes outlining the determined reburial process/location and shall include measures and provisions to protect the reburial area from any future impacts (vis a vis project plans, conservation/preservation easements, etc.).

Should it occur that avoidance, preservation in place, and on-site reburial are not an option for treatment, the landowner shall relinquish all ownership and rights to his material and confer with

the applicable <u>Colorado River</u> Indian Tribes to identify an American Association of Museums (AAM)-accredited facility within the County that can accession the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an appropriately qualified repository shall be developed between the landowner and museum that legally and physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the Applicant's obligation to pay for those fees.

All draft records/reports containing the significance and treatment findings and data recovery results shall be prepared by the archaeologist and submitted to the County and the applicable <u>Colorado River</u> Indian Tribes for their review and comment. After approval from all parties, the final reports and site/isolate records are to be submitted to the local CHRIS Information Center, the County, and the applicable <u>Colorado River</u> Indian Tribes.

4. Page 4.10-10, Mitigation Measure TCR-2 is revised as follows:

**Mitigation Measure TCR-2:** Any and all archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the Applicant, and County for dissemination to the applicable <u>and Colorado River</u> Indian Tribes. The County and/or Applicant shall, in good faith, consult with the applicable <u>Colorado River</u> Indian Tribes throughout the life of the Project.

# **3.5 CHAPTER 5: ALTERNATIVES ANALYSIS**

1. Page 5-9, the second to last paragraph is revised as follows:

Implementation of the Reduced Acreage Alternative would result in reduced impacts to biological resources when compared to the Project-related impacts...Impacts would remain less than significant, but would still require implementation of **Mitigation Measures BIO-1** through **BIO-11** to reduce impacts to less than significant.

2. Page 5-15, the second to last paragraph is revised as follows:

The Offsite Alternative is within the planning area of several adopted local plans, including the Countywide Plan and the DRECP...Similar mitigation measures identified for the Project (**Mitigation Measures BIO-1** through **1112**) would be implemented to reduce impacts to a less than significant level. Therefore, the Offsite Alternative would result in similar impacts to those of the Project, and impacts would be reduced to less than significant.

# Appendix A

**Bracketed Comment Letters** 

# Kimley »Horn



State of California – Natural Resources Agency DEPARTMENT OF FISH AND WILDLIFE Inland Deserts Region 3602 Inland Empire Boulevard, Suite C-220 Ontario, CA 91764 www.wildlife.ca.gov

January 20, 2023 Sent via email

Jim Morrissey San Bernardino County 385 N. Arrowhead Avenue, First Floor San Bernardino, CA 92415 Jim.Morrissey@lus.sbcounty.gov

Subject: Draft Environmental Impact Report Vidal Energy Project (Project) State Clearinghouse No. 2022030713

Dear Mr. Morrissey:

The California Department of Fish and Wildlife (CDFW) received a Draft Environmental Impact Report (DEIR) from the County of San Bernardino (Lead Agency) for the Project pursuant the California Environmental Quality Act (CEQA) and CEQA Guidelines.<sup>1</sup>

Thank you for the opportunity to provide comments and recommendations regarding those activities involved in the Project that may affect California fish and wildlife. Likewise, we appreciate the opportunity to provide comments regarding those aspects of the Project that CDFW, by law, may be required to carry out or approve through the exercise of its own regulatory authority under the Fish and Game Code.

# **CDFW ROLE**

CDFW is California's **Trustee Agency** for fish and wildlife resources, and holds those resources in trust by statute for all the people of the State (Fish & G. Code, §§ 711.7, subd. (a) & 1802; Pub. Resources Code, § 21070; CEQA Guidelines § 15386, subd. (a).) CDFW, in its trustee capacity, has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and habitat necessary for biologically sustainable populations of those species. (*Id.*, § 1802.) Similarly for purposes of CEQA, CDFW is charged by law to provide, as available, biological expertise during public agency environmental review efforts, focusing specifically on projects and related activities that have the potential to adversely affect fish and wildlife resources.

CDFW is also submitting comments as a **Responsible Agency** under CEQA (Pub. Resources Code, § 21069; CEQA Guidelines, § 15381). CDFW expects that it may need to exercise regulatory authority as provided by the Fish and Game Code. As proposed, for example, the Project may be subject to CDFW's lake and streambed alteration regulatory authority. (Fish & G. Code, § 1600 et seq.) Likewise, to the extent implementation of the Project as proposed may result in "take" as defined by State law of any species protected under the California Endangered Species Act (CESA) (Fish & G. Code, § 2050 et seq.), the Project proponent may seek related take authorization as provided by the Fish and Game Code.

# PROJECT DESCRIPTION SUMMARY

Proponent: CDH Vidal, LLC (CORE) (Applicant)

**Objective:** The Project has the following objectives:

- Utilize property within the County to site photovoltaic (PV) solar power-generating facilities and energy storage near existing utility infrastructure.
- Support California's efforts to reduce greenhouse gas (GHG) emissions consistent with the timeline established by the California Global Warming Solutions Act under California AB 32, as amended by SB 32, which requires that Statewide GHG



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<sup>1</sup> CEQA is codified in the California Public Resources Code in section 21000 et seq. The "CEQA Guidelines" are found in Title 14 of the California Code of Regulations, commencing with section 15000.

emissions are reduced to at least 40 percent below the Statewide GHG emissions limit by 2030.

- Support California's Renewable Portfolio Standard (RPS) Program consistent with the timeline established by SB 100.
- Develop an economically feasible and commercially financeable power-generating facility and energy storage system.
- Provide solar-generated electricity to the California Independent System Operator (CAISO) grid.
- Promote the County's role as the state's leading producer of renewable energy.
- Provide green jobs to the County and the state of California.
- Site and design the Project in an environmentally responsible manner consistent with current County guidelines.

**Location:** The Project is located approximately 2.5 miles southeast of Vidal, an unincorporated area of San Bernardino County; east of U.S. Route 95, north of the Riverside County border, and west of the Colorado River.

**Timeframe:** Project construction is anticipated to begin in 2023 and is expected to be complete within approximately 14 months. Once construction is complete, the Project has an anticipated operational life of up to 35 years, after which CORE may choose to update site technology and recommission, or decommission, the facility and remove the systems and their components.

**Description:** The Project includes the construction and operation of an approximately 1,090-acre solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility. The Project will generate up to 160 megawatts (MW) of alternating current of solar power and include up to 640 megawatt hours (MWh) of energy storage capacity. The Project would be supported by the existing Western Area Power Administration (WAPA) 161 kilovolt (kV) overhead transmission corridor. The facility would include the construction of one onsite substation facility that would collect and convert the power generated onsite for transmission via an overhead or underground line to the WAPA transmission system and interconnection location. The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, a Project substation, and operations and maintenance facilities.

# COMMENTS AND RECOMMENDATIONS

CDFW offers the comments and recommendations below to assist the Lead Agency in adequately identifying and/or mitigating the Project's significant, or potentially significant, direct and indirect impacts on fish and wildlife (biological) resources. Editorial comments or other suggestions may also be included to improve the document.

# Assessment of Impacts to Biological Resources

The DEIR bases its analysis of impacts to biological resources on the Biological Resources Report (Appendix D of the DEIR) prepared by Chambers Group, Inc. dated December 2020. A reconnaissance-level survey was conducted in April 2020; focused plant survey in May 2020; and desert tortoise and burrowing owl focused survey in May 2020, making these surveys nearly three years old. Note that CDFW generally considers field assessments for wildlife to be valid for a one-year period. Further, the report indicates that the focused desert tortoise and burrowing owl surveys were conducted concurrently. CDFW generally does not support the approach of the same personnel concurrently conducting surveys for multiple species, as protocol requirements vary and some sign may be missed.

# **Nesting Birds**

Project implementation could result in the loss of nesting and/or foraging habitat for passerine and raptor species from the removal of desert scrub vegetation onsite. The biggest threat to birds includes habitat loss and the conversion of natural vegetation into commercial, residential and industrial land uses.

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It is the Project proponent's responsibility to comply with all applicable laws related to nesting birds and birds of prey. Migratory non-game bird species are protected by international treaty under the federal Migratory Bird Treaty Act (MBTA) of 1918, as amended (16 U.S.C. 703 et. seq.). In addition, sections 3503, 3503.5, and 3513 of the Fish and Game Code also afford protective measures as follows: Section 3503 states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by FGC or any regulation made pursuant thereto; Section 3503.5 states that it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by FGC or any regulation adopted pursuant thereto; and Section 3513 states that it is unlawful to take or possess any migratory nongame bird as designated in the MBTA or any part of such migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the MBTA.

The final EIR should include specific avoidance and minimization measures to ensure that impacts to nesting birds do not occur. Project-specific avoidance and minimization measures may include, but not be limited to: Project phasing and timing, monitoring of Project-related noise, sound walls, and buffers. The final EIR should also include specific avoidance and minimization measures that will be implemented should a nest be located within the Project site.

CDFW supports the inclusion of Mitigation Measure BIO-4, with minor edits (in strikethrough and **bold**) in the final EIR to avoid impacts to nesting birds:

Mitigation Measure BIO-4 - Vegetation trimming/crushing shall take place outside the general bird breeding season (February 15 to September 15), to the maximum extent practicable. If this is not possible, Regardless of the time of year, prior to grounddisturbing activities, a qualified biologist shall conduct a nesting bird survey to comply with CDFW Code 3503 and 3503.5 and the Migratory Bird Treaty Act. The survey shall occur no more than 30 three (3) days prior to initiation of proposed Project activities and shall include any potential habitat (including trees, shrubs, the ground, or nearby structures). Any occupied passerine and/or raptor nests occurring within or adjacent to the proposed Project area or the Project's zone of influence (generally 100-300 feet) shall be delineated and a no-disturbance buffer zone (as determined by the avian biologist) shall be established and maintained during Project activities. Additional follow-up surveys may be required by the resource agencies and the County of San Bernardino. If an active nest is identified, an avoidance buffer zone around occupied nests (as determined by the avian biologist) shall be maintained during physical ground-disturbing activities. The buffer zone shall be sufficient in size to prevent impacts to the nest. A qualified biologist shall monitor active nests to determine whether construction activities are disturbing nesting birds or nestlings. If the qualified biologist determines that construction activities pose a disturbance to nesting, construction work shall be stopped in the area of the nest and the no disturbance buffer shall be expanded. Once nesting has ceased and the fledglings are no longer using the nest area as confirmed by a qualified **biologist**, the buffer may be removed. A nesting bird survey report shall be provided to the County of San Bernardino and CDFW. If an active nest is encountered during construction, construction shall stop immediately until a qualified biologist can determine the status of the nest and when work can proceed without risking violation to state or federal laws.

# **Burrowing Owl**

The Project has the potential to adversely affect burrowing owl (*Athene cunicularia*), a CDFW Species of Special Concern. According to the DEIR, one round of burrowing owl surveys was conducted concurrently with the focused desert tortoise survey over a five-day period from May 11, 2020 through May 15, 2020. CDFW appreciates that surveys were conducted, however, as noted above, CDFW generally does not support the approach of concurrently conducting surveys for different species. Further, while the DEIR states that three potential burrows and sign were observed within the Project site and that impacts to burrowing owl could potentially be significant, it does not clearly identify the extent of suitable habitat within the Project site and therefore CDFW cannot determine the potential

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extent impacts. In areas where burrowing owl may be present, CDFW recommends that the Lead Agency follow the recommendations and guidelines provided in the *Staff Report on Burrowing Owl Mitigation* (2012 Staff Report). The 2012 staff report specifies three steps for project impact evaluations: a habitat assessment; surveys; and an impact assessment. As stated in the *Staff Report*, the three progressive steps are effective in evaluating whether a project will result in impacts to burrowing owl, and the information gained from the steps will inform any subsequent avoidance, minimization, and mitigation measures. Habitat assessments are conducted to evaluate the likelihood that a site supports burrowing owl. Burrowing owl surveys provide information needed to determine the potential effects of proposed projects and activities on burrowing owls, and to avoid take in accordance with Fish and Game Code sections 86, 3503, and 3503.5. Impact assessments evaluate the extent to which burrowing owls and their habitat may be impacted, directly or indirectly, on and within a reasonable distance of the proposed Project activity.

Burrowing owl are susceptible to impacts year-round as their breeding season generally extends from February 1 to August 31 and their overwintering period generally from September 1 to January 31. In areas where burrowing owl may be present, ground disturbing activities should be avoided to the extent practicable. Solar development may be considered a high level of disturbance and an appropriate buffer should be determined to avoid take of the species. If burrowing owl are found within the Project area during preconstruction surveys or construction activities, and it is not possible to avoid active burrows, passive relocation and mitigation shall be implemented.

CDFW recommends the following edits to Mitigation Measure BIO-6 (in strikethrough and **bold**)

Mitigation Measure BIO-6 – No less than 14 days prior to construction any ground disturbance activities, a burrowing owl Take Avoidance Survey shall be conducted by a qualified biologist in accordance with the *Staff Report on Burrowing Owl Mitigation* (California Department of Fish and Game 2012). The survey shall be conducted no less than 14 days prior to initiating ground disturbance activities. If burrowing owls are determined to be present where Project activities will occur, minimization and avoidance measures shall be required including but not limited to a final survey within 24 hours prior to ground disturbance. site-specific non-disturbance buffer zones shall be established by the qualified biologist based on monitoring and assessments of the Project's effects on the burrowing owls. If it is not possible to avoid active burrows during the nonbreeding season, passive relocation shall be implemented.

CDFW further recommends that the Project proponent prepare a Burrowing Owl Mitigation and Monitoring Plan to be submitted to CDFW for review 60 days prior to the start of ground disturbing activities.

# **Desert Kit Fox**

Five active desert kit fox (*Vulpes macrotis arsipus*) burrow/burrow complexes were identified on the Project site during the desert tortoise and burrowing owl surveys. While the DEIR states that "..desert kit fox is a non-sensitive species…", please note that kit fox is in fact protected as a fur-bearing mammal pursuant to Title 14 of the California Code of Regulations section 460 and may not be taken (including trapping and handling) at any time. Because desert kit fox has high fidelity to natal dens, it is crucial to adequately assess whether desert kit fox is present on the Project site well in advance of commencing Project activities.

CDFW recommends the following edits to Mitigation Measure BIO-7 (in strikethrough and **bold**):

Mitigation Measure BIO-7 – Prior to commencing Project activities, a qualified biologist shall conduct a focused survey for desert kit fox, including assessment of all burrows in the Project area. If potential burrows are located, they shall be monitored by the qualified biologist. If any burrow/burrow complex is determined to house desert kit fox and the burrow/burrow complex is unavoidable, exclusionary devices (e.g., one-way doors) should-shall be fitted on the active burrow openings, and once the burrow has been

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confirmed vacant **as determined by the qualified biologist and in consultation with CDFW**, the burrow should shall be carefully excavated to prevent re-entry/re-use of the burrow. These exclusion/excavation activities should shall only occur during the nonbreeding season (July 2- January 15). If construction will occur during the breeding season, any active burrow/burrow complex that is unavoidable should shall be provided a 500-foot no work buffer until the end of breeding season (July 1) or until the burrow has been determined to be inactive (and does not contain pups) by the qualified biologist.

CDFW further recommends that the Project proponent prepare a Desert Kit Fox Monitoring and Mitigation Plan to be submitted to CDFW for review 60 days prior to the start of ground disturbing activities. The Plan should include a summary of desert kit fox occurrence in the Project area, and avoidance and minimization measures, including but not limited to preconstruction surveys, active den and burrow monitoring, excavation of inactive or unoccupied burrows, and details on passive relocation from active, non-natal dens and burrows.

# **Desert Tortoise**

The desert tortoise (*Gopherus agassizii*) is listed as threatened and a candidate as endangered under the California Endangered Species Act (CESA). CDFW is responsible for ensuring appropriate conservation of fish and wildlife resources including threatened, endangered, and/or candidate plant and animal species, pursuant to (CESA). A CESA Incidental Take Permit (ITP) is issued to conserve, protect, enhance, and restore Statelisted CESA species and their habitats. CDFW recommends that a CESA ITP be obtained if the Project has the potential to result in "take" (California Fish and Game Code Section 86 defines "take" as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill") of CESA-listed species. Take of any CESA-listed species is prohibited except as authorized by state law (Fish and G. Code, §§ 2080 and 2085). If the Project, including the Project construction or any Project-related activity during the life of the Project, results in take of CESA-listed species, CDFW recommends that the Project proponent seek appropriate authorization prior to Project implementation through an ITP.

No live desert tortoises, active desert tortoise burrows or other desert tortoise sign were identified during focused surveys, but one potential desert tortoise burrow was observed within the survey buffer near the southwest corner of the Project. While the burrow was filled with spider webs and appeared to have been in disuse, this does not necessarily exclude use or occupation of the Project site by desert tortoise. Also, as noted above, the desert tortoise surveys are nearly three years old and CDFW recommends conducting updated protocol surveys for desert tortoise. The DEIR does not include any desert tortoise-specific mitigation measures, but Mitigation Measure BIO-5 address sensitive species in general, indicating that any sensitive species found will be relocated out of harm's way. Desert tortoise may not be moved or handled in any way without proper permits.

# Lake and Streambed Alteration Program

The DEIR identifies five drainage systems as well as ephemeral drainages and washes within the Project site subject to CDFW jurisdiction, for a total of 123.85 acres. CDFW appreciates that the Project has been designed to minimize impacts to the largest washes onsite and that the DEIR indicates that impacts to all CDFW jurisdictional resources warrant the need for a 1602 Streambed Alteration Agreement.

Fish and Game Code section 1602 requires an entity to notify CDFW prior to commencing any activity that may do one or more of the following: Substantially divert or obstruct the natural flow of any river, stream or lake; Substantially change or use any material from the bed, channel or bank of any river, stream, or lake; or Deposit debris, waste or other materials that could pass into any river, stream or lake. Please note that "any river, stream or lake" includes those that are episodic (i.e., those that are dry for periods of time) as well as those that are perennial (i.e., those that flow year-round). This includes ephemeral streams, desert washes, and watercourses with a subsurface flow. It may also apply to work undertaken within the flood plain of a body of water. A-12 cont

A-13

Upon receipt of a complete notification, CDFW determines if the proposed Project activities may substantially adversely affect existing fish and wildlife resources and whether a Lake and Streambed Alteration (LSA) Agreement is required. An LSA Agreement includes measures necessary to protect existing fish and wildlife resources. CDFW may suggest ways to modify your Project that would eliminate or reduce harmful impacts to fish and wildlife resources.

CDFW's issuance of an LSA Agreement is a "project" subject to CEQA (see Pub. Resources Code § 21065). To facilitate issuance of an LSA Agreement, if necessary, the DEIR should fully identify the potential impacts to the lake, stream, or riparian resources, and provide adequate avoidance, mitigation, and monitoring and reporting commitments. Early consultation with CDFW is recommended, since modification of the proposed Project may be required to avoid or reduce impacts to fish and wildlife resources. To obtain a Lake or Streambed Alteration notification package, please go to https://www.wildlife.ca.gov/Conservation/LSA/Forms.

# ENVIRONMENTAL DATA

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).) Accordingly, please report any special status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). The CNNDB field survey form can be found at the following link: <a href="http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/CNDDB\_FieldSurveyForm.pdf">http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/CNDDB\_FieldSurveyForm.pdf</a>. The completed form can be mailed electronically to CNDDB at the following email address: <a href="http://www.dfg.ca.gov/biogeodata/cnddb/plants\_and\_animals.asp">CNDDB@wildlife.ca.gov</a>. The types of information reported to CNDDB can be found at the following link: <a href="http://www.dfg.ca.gov/biogeodata/cnddb/plants\_and\_animals.asp">http://www.dfg.ca.gov/biogeodata/cnddb/plants\_and\_animals.asp</a>.

# FILING FEES

The Project, as proposed, would have an impact on fish and/or wildlife, and assessment of filing fees is necessary. Fees are payable upon filing of the Notice of Determination by the Lead Agency and serve to help defray the cost of environmental review by CDFW. Payment of the fee is required in order for the underlying Project approval to be operative, vested, and final. (Cal. Code Regs, tit. 14, § 753.5; Fish & G. Code, § 711.4; Pub. Resources Code, § 21089.)

# CONCLUSION

CDFW appreciates the opportunity to comment on the DEIR to assist San Bernardino County in identifying and mitigating Project impacts on biological resources.

Questions regarding this letter or further coordination should be directed to Rose Banks, Senior Environmental Scientist (Specialist) at (760) 218-0022 or Rose.Banks@wildlife.ca.gov.

Sincerely,

DocuSigned by: Alisa Ellsworth 84FBB8273E4C480..

Alisa Ellsworth Environmental Program Manager

ec: Office of Planning and Research State Clearinghouse, Sacramento <u>State.Clearinghouse@opr.ca.gov</u> A-15 cont

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California Program Office P.O. Box 401 Folsom, California 95763 | 916-313-5800 www.defenders.org

January 23, 2023

Jim Morrissey, Planner County of San Bernardino, Land Use Services Department 385 North Arrowhead Avenue, First Floor San Bernardino, CA 92415 Delivered via email to: Jim.Morrissey@lus.sbcounty.gov

RE: Draft Environmental Impact Report – Vidal Energy Project (SCH 2022030713)

Dear Mr. Morrissey,

Thank you for the opportunity to provide comments in response to the Draft Environmental Impact Report (DEIR) for the proposed Vidal Energy Project (Project). Defenders of Wildlife (Defenders) is dedicated to protecting all wild animals and plants in their natural communities and has nearly 2.2 million members and supporters in the United States, 323,000 of which reside in California. We strongly support renewable energy development that will help meet California's emission reduction goals and avoids destruction of important wildlife habitat and loss of at-risk species. Achieving a low-carbon energy future is critical for protecting California's internationally treasured wildlife, landscapes, productive farmlands and diverse habitats.

## **Project Description**

The proposed Project is a photovoltaic solar facility that would generate up to 160 MW of renewable energy, provide storage for up to 640 MWh and would be supported by the adjacent existing Western Area Power Administration (WAPA) overhead transmission corridor. The Project is located on 1,090 acres of privately-owned land in southeastern San Bernardino County in the East Desert Communities planning area. It is approximately 2.5 miles southeast of unincorporated community of Vidal and is located within the Vidal Wash and Upper Parker Valley-Colorado River watersheds. The Project site is comprised of mostly vacant and undeveloped land with existing rural access roads and contains scattered structures such as abandoned rural residence, garage (storage) areas, and several WAPA towers. Additionally, illegal dumping is occurring throughout the Project site and the wash areas are currently being

B-1

used by off-highway vehicles.

The Project site may provide habitat to numerous special-status wildlife species, including but not limited to the following:<sup>1</sup>

Common Name	Scientific Name	Status				
American badger	Tavidoa tavus	State Species of Special				
American bauger		Concern				
Arizona Bell's vireo	Vireo bellii arizonae	State Endangered				
Durrowing out	Athono ouniquiaria	State Species of Special				
Burrowing owi	Athene cunicularia	Concern				
Decort tortaico	Conhorus agassizii	Federally and State				
Desert tortoise	Gopherus ugussizii	Threatened				
Gila woodpecker	Melanerpes uropygialis	State Endangered				
Townsend's big-eared	Commorphique tourneondii	State Species of Special				
bat	Corynorninus townsenui	Concern				
Western yellow-billed	Coccyzus americanus	Federally Threatened and				
cuckoo	occidentalis	State Endangered				
Vallow broasted shat	Istoria virons	State Species of Special				
renow-preasted chat		Concern				

## Comments

As we transition toward a clean energy future, it is imperative that we consider the near-term impact of solar development on our biodiversity, fish and wildlife habitat, and natural landscapes while addressing the long-term impacts of climate change. Renewable energy projects must be planned, sited, developed and operated to avoid, minimize and mitigate adverse impacts to wildlife and lands with known high-resource values .

We offer the following comments on the DEIR for the Project:

# 1. Impact on Critical Habitat for Special-Status Species

The Project site is in close proximity to designated critical habitat for several specialstatus species, including critical habitat and linkage area for the desert tortoise, razorback sucker and western yellow-billed cuckoo. Desert tortoise critical habitat and the Chuckwalla to Chemehuevi linkage area are within 3 miles of the Project and

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<sup>&</sup>lt;sup>1</sup> California Natural Diversity Database. Accessed 1/19/2023. <u>https://wildlife.ca.gov/Data/CNDDB/Maps-and-Data</u>

critical habitat for the razorback sucker and western yellow-billed cuckoo is present within 0.5 miles of the Project.

The DEIR acknowledges the close proximity of the Project to important biological areas but states since the Project is not located within the critical habitat areas, there will be no impact and no further investigation is required. This is an incomplete analysis; although critical habitat is not located directly on the Project site, the Project has the ability to impact these special-status species and the critical habitat and linkage areas in close proximity to the Project site. Direct and indirect impacts to adjacent land from a solar project may include, but are not limited to, increased predation of special-status species, avian mortality due to lake effect<sup>2</sup>, connectivity and linkage impacts, water pollution and run-off, and impacts from noise, light and dust. We request the DEIR analyze both direct and indirect impacts the Project may have on the critical habitat and linkage areas.

The increasing development of solar energy projects within San Bernardino County is having a significant impact on biological resources in the region. This Project is not an exception and would significantly add to the loss of important and declining biological resources. The DEIR analysis must include the cumulative impacts to wildlife connectivity and critical habitat and provide appropriate mitigation measures. Furthermore, Defenders requests the analysis include a detailed map of existing and planned solar energy development that includes the remaining nearby habitat and linkage areas for desert tortoise.

## 2. Revise Mitigation Measure BIO-6

Although no live burrowing owls were observed during surveying, potential burrows with sign of presence including cough pellets and/or whitewash was observed within the Project Site and within the survey buffer area. Since burrowing owl sign was found on and surrounding the Project site, it is reasonable to expect that the Project site provides suitable habitat and/or foraging for the species and burrowing owls may be determined as present during future surveys. To ensure the survival of burrowing owls, it is essential that proper mitigation measures and buffers are implemented, and necessary permits obtained if the species is found to be present. Defenders requests adherence to the recommended mitigation measures within the B-5

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B-7

<sup>&</sup>lt;sup>2</sup> Upton, J. 2014. Solar farms threaten birds. Scientific American. <u>https://www.scientificamerican.com/article/solar-farms-threaten-birds/#:~:text=lt%20was%20one%20of%20233,fatally%20crippled%20by%20the%20facilities.</u>

Staff Report on Burrowing Owl Mitigation.<sup>3</sup> We request this mitigation measure be revised to read:

"Prior to construction, a burrowing owl Take Avoidance Survey shall be conducted by a qualified biologist. The survey shall be conducted no less than 14 days prior to initiating ground disturbance activities. If burrowing owls are determined to be present where Project activities will occur, minimization and avoidance measures shall be required <u>in accordance with the measures outlined in the Staff Report on</u> <u>Burrowing Owl Mitigation,</u> including but not limited to a final survey within 24 hours prior to ground disturbance. <u>In addition, if burrowing owls are determined to</u> <u>be present, CDFW shall be consulted regarding the appropriate avoidance buffers</u> <u>around active burrows and for any necessary permits.</u>"

#### 3. Revise Mitigation Measure BIO-8

The Project site contains habitat suitable for special-status species. Where adverse impacts to habitat that is suitable for special-status species cannot be avoided, mitigation must be provided.

This project will result in the permanent conversion of burrowing owl habitat, as once the land is developed, the habitat will not return to the current state. This warrants permanent protection of habitat and foraging lands. The mitigation measure should be consistent with the Staff Report on Burrowing Owl Mitigation from the State of California that provides the permanent conservation of burrowing owl habitat should be included.<sup>4</sup> This conversion of burrowing owl habitat shall be comparable to or better than the impacted area to mitigate for the permanent impact to nesting habitat. We request this mitigation measure be revised to read:

"Temporary and permanent impacts to all jurisdictional resources <u>and impacts to</u> <u>habitat suitable for special-status species</u> shall be compensated through a combination of habitat creation (i.e., establishment), enhancement, preservation, and/or and restoration at a minimum of a 1:1 ratio or as required by the permitting agencies. Any creation, enhancement, preservation, and/or restoration effort shall B-7 cont

<sup>&</sup>lt;sup>3</sup> California Department of Fish and Wildlife. 2012. Staff Report on Burrowing Owl Mitigation. The 7 March 2012 memo replacing 1995 staff report, State of California Natural resources Agency, Department of Fish and Wildlife. Sacramento, California.

<sup>&</sup>lt;sup>4</sup> California Department of Fish and Wildlife. 2012. Staff Report on Burrowing Owl Mitigation. The 7 March 2012 memo replacing 1995 staff report, State of California Natural resources Agency, Department of Fish and Wildlife. Sacramento, California.

be implemented pursuant to a Habitat Restoration Plan, which shall include success criteria and monitoring specifications, and **shall be approved by CDFW.** A habitat restoration specialist will be designated and approved by the permitting agencies and will determine the most appropriate method of restoration. **For the permanent conversion of burrowing owl habitat, habitat and foraging area that is comparable to or better than the impacted area shall be permanently conserved. This shall be done in accordance with the Staff Report on Burrowing Owl Mitigation.**"

#### 4. Desert Tortoise

The Project site is in close proximity to desert tortoise critical habitat and the Chuckwalla to Chemehuevi tortoise linkage area. It is reasonable to expect desert tortoises will utilize the project area in the future given the close proximity to critical habitat and linkage area. Therefore, Defenders requests the inclusion of additional desert tortoise mitigation measures, as follows.

#### a) Pre-Construction Survey

The DEIR fails to include a mitigation measure requiring pre-construction surveys specifically for desert tortoise completed by a desert tortoise qualified biologist. Given the possibility of the desert tortoise entering the Project area, Defenders requests desert tortoise specific pre-construction surveys to ensure that no desert tortoises have entered the Project site before construction begins. Furthermore, if any desert tortoises are found during pre-construction surveys, CDFW and USFWS must be consulted for any further desert tortoise specific mitigation measures and any required permits prior to commencement of construction activities.

#### b) Raven Mitigation Plan

Ravens are known predators of desert tortoises and are likely a major impediment to desert tortoise recovery. Solar development and the associated infrastructure can be expected to increase raven threats to desert tortoises by providing raven hunting and nesting platforms. Ravens can fly at least 30 miles daily in search of food and water<sup>5</sup> and with desert tortoise critical habitat located within 3 miles of the Project site, it is likely B-8 cont

<sup>&</sup>lt;sup>5</sup> Boarman, W.I, M.A. Patten, R.J. Camp, and S.J. Collis. 2006. Ecology of a population of subsidized predators: Common ravens in the central Mojave Desert, California. Journal of Arid Environments 67 (2006) 248–261.

the project would subsidize the raven population and create access to desert tortoises.

The DEIR must include a mitigation measure requiring the creation and implementation of a Raven Management Plan. This plan should include an analysis on the impact the Project could have on common ravens, identify Project design to discourage use by ravens for perching or nesting, the removal of inactive nests within the Project area and active site monitoring for raven presence. It is vital that the Project implement a Raven Management Plan to mitigate the impact of this project on surrounding desert tortoise populations.

#### Conclusion

Thank you once again for the opportunity to provide comments on the DEIR for the Vidal Energy Project and for considering our comments. We look forward to reviewing the Final EIR and request to be notified when it is available. If you have any questions, please contact me at 408-603-4694 or via email at <u>smarkowska@defenders.org</u>.

Respectfully submitted,

Sophin Markowska

Sophia Markowska Senior California Representative

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Defenders of Wildlife Comments on DEIR – Vidal Energy Project SCH 2022030713 Page 6



**DESERT TORTOISE COUNCIL** 

3807 Sierra Highway #6-4514 Acton, CA 93510 <u>www.deserttortoise.org</u> eac@deserttortoise.org

Via email only

23 January 2023

Jim Morrissey, Contract Planner San Bernardino County - Land Use Services 385 North Arrowhead Avenue, First Floor San Bernardino, CA 92415-0187 Jim.Morrissey@lus.sbcounty.gov

RE: Vidal Energy Project Draft Environmental Impact Report (SCH# 2022030713)

Dear Mr. Morrissey,

The Desert Tortoise Council (Council) is a non-profit organization comprised of hundreds of professionals and laypersons who share a common concern for wild desert tortoises and a commitment to advancing the public's understanding of desert tortoise species. Established in 1975 to promote conservation of tortoises in the deserts of the southwestern United States and Mexico, the Council routinely provides information and other forms of assistance to individuals, organizations, and regulatory agencies on matters potentially affecting desert tortoises within their geographic ranges.

Both our physical and email addresses are provided above in our letterhead for your use when providing future correspondence to us. When given a choice, we prefer that San Bernardino County (County) email to us future correspondence, as mail delivered via the U.S. Postal Service may take several days to be delivered. Email is an "environmentally friendlier way" of receiving correspondence and documents rather than "snail mail."

We appreciate this opportunity to provide comments on the above-referenced project. We also appreciate that the Council was alerted to this project in an email notice from you on 12/2/2022. Given the location of the proposed project in habitats likely used by Mojave desert tortoise (*Gopherus agassizii*) (synonymous with Agassiz's desert tortoise), our comments pertain to enhancing protection of this species during activities funded, authorized, or carried out by the County, which we assume will be added to the Decision Record for this project as needed. Please accept, carefully review, and include in the relevant project file the Council's following comments for the proposed project.

Desert Tortoise Council/Comments/Vidal Solar DEIR.1-23-2023

The Mojave desert tortoise is among the top 50 species on the list of the world's most endangered tortoises and freshwater turtles. The International Union for Conservation of Nature's (IUCN) Species Survival Commission, Tortoise and Freshwater Turtle Specialist Group, now considers the Mojave desert tortoise to be Critically Endangered (Berry et al. 2021), as it is a "species that possess an extremely high risk of extinction as a result of rapid population declines of 80 to more than 90 percent over the previous 10 years (or three generations), population size fewer than 50 individuals, other factors." It is one of three turtle and tortoise species in the United States to be critically endangered. This status, in part, prompted the Council to join Defenders of Wildlife and Desert Tortoise Preserve Committee (Defenders of Wildlife et al. 2020) to petition the California Fish and Game Commission in March 2020 to elevate the listing of the Mojave desert tortoise from threatened to endangered in California.

We reviewed the Vidal Energy Project Draft Environmental Impact Report (DEIR) in eastern San Bernardino County, California that was prepared to comply with the California Environmental Quality Act (CEQA), and offer the following comments for your consideration and incorporation into the revised or final document.

#### **Description of Proposed Project and Alternatives**

According to the DEIR (San Bernardino County 2022), CDH Vidal LLC (CORE) plans to construct and operate the Vidal Energy Project (Project), a solar photovoltaic (PV) electricity generation and energy storage facility. The Project would produce up to 160 megawatts (MW) of electricity and include up to 640 megawatt hours (MWh) of energy storage capacity rate in a battery energy storage system (BESS). The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, a Project substation, and operations and maintenance (O&M) facilities. Existing roads would be used to the greatest extent possible, potential new unpaved roads may need to be constructed off-site to serve as access roads from the existing road network to the Project Site.

The Project would be supported by the existing, adjacent Western Area Power Administration (WAPA) 161-kilovolt (kV) overhead corridor to distribute the energy. The Project would include the construction of one on-site substation facility, which would collect and convert the power generated on-site for transmission in an overhead or underground line to the WAPA transmission system and interconnection location. Upgrades associated with WAPA interconnection include replacement of existing fiber optic cable along the 52-mile Headgate Rock-Blythe 161 kV transmission line and construction of a new switchyard and associated interconnection facilities adjacent to the Project and to WAPA's existing Headgate Rock-Blythe 161-kV transmission line. WAPA would also work with the Bureau of Land Management (BLM) in the processing of the right-of-way (ROW) application to support these connections, as needed. WAPA would maintain and decommission its facilities.

Operations and maintenance of the Vidal Solar Project would occur for about 35 years, the expected life of the Project. If the facility is not updated and recommissioned, it would be decommissioned. Site infrastructure would be removed and Project roads would be restored to their pre-construction condition to the extent feasible unless the landowner elects to retain the improved roads. To that ends, we provide Abella and Berry (2016)<sup>1</sup> as an excellent resource to be shared with CORE as best management practices for arid lands restoration.

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<sup>&</sup>lt;sup>1</sup> <u>https://www.dropbox.com/s/nx1b5m2b5ehya12/%23Abella%20and%20Berry%202016.pdf?dl=0</u>

Desert Tortoise Council/Comments/Vidal Solar DEIR.1-23-2023

The Project would be located on up to approximately 1,090 acres of land. The Project Site is located approximately 2.5 miles southeast of Vidal, which is an unincorporated area of the County and located east of U.S. Route 95, north of the Riverside County border, and just west of the Colorado River. The Project Site encompasses 1,090 acres within 21 parcels (in their entirety and portions thereof) that are held under lease agreement by CORE. It is about 3 miles southeast of the Chemehuevi critical habitat unit (USFWS 1994) for the tortoise and Tortoise Conservation Area (TCA).

<u>Alternatives Evaluated in the DEIR:</u> Four Alternatives were evaluated in the DEIR, including the proposed Project and:

- Alternative 1 No Project Alternative. Under the No Project Alternative, CORE would not construct a PV and BESS facility and the Project's objectives would not be realized.
- Alternative 2 Reduced Acreage Alternative. Under the Reduced Acreage Alternative, the Project Site would be reduced by 177 acres, and the Project's renewable energy generation capacity would be reduced by approximately 25 percent due to the installation of fewer PV panels. This alternative avoids siting the PV panels in the smaller washes.
- Alternative 3 Offsite Alternative. Under the Offsite Alternative, the Offsite Alternative would be redesigned and relocated to approximately 1,100 acres of BLM-administered land outside of the City of Blythe, which is designated as a Development Focus Area (DFA) for renewable energy in the Desert Renewable Energy Conservation Plan (DRECP; BLM 2016).

Of the three action alternatives analyzed in the DEIR, the Council prefers the Reduced Acreage Alternative, because it would reduce impacts to washes used by the tortoise and other desert species for forage (increased diversity and abundance of native vegetation) and as movement corridors ( please see our comments under "Appendix D – Biological Resources").

Two other alternatives were considered but dismissed. One was a Fossil Fuel Alternative and the other a Distributed Generation Alternative.

Of the six alternatives described in the DEIR, the Council supports the Distributed Generation Alternative. This alternative installs smaller scale PV facilities at or near the point of energy use. According to the DEIR, this alternative was dismissed because (1) finding 16 or more separate sites for development of solar power that produces 10 MW each to produce collectively160 MW of electricity is not feasible due to the time, expense, and site control requirements associated with selecting such a <u>large number of locations</u> (emphasis added); and (2) CORE does not currently own or control any other such sites or land in San Bernardino County. We challenge the reasons given for dismissing this alternative. If CORE expended similar time and expense for the 16 Distributed Generation sites as it did for the 21 parcels for the proposed Project, it would likely be able to develop and implement the Distributed Generation Alternative. While CORE does not control any other sites in San Bernardino County, we are not sure why the project must be located in San Bernardino County. One of the viable alternatives in the DEIR is in Riverside County. In addition, if the County required applicants to first explore distributed generation, CORE and other

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applicants would focus their efforts on implementing this approach for the generation of solar energy rather than utility-scale solar with its greater impacts to biological resources and climate change (please see "Climate Change" and "Mitigation Measures" below) and fall short of requiring full mitigation for direct, indirect, and cumulative impacts. From the information provided in the DEIR, it appears the Distributed Generation Alternative was dismissed not because it is a nonviable alternative, but because it is not what CORE wanted to implement.

We question the need for 16 sites that generate 10 MW of electricity. Alternative 3, a viable alternative, is a Reduced Acreage Alternative with reduced energy output by 25 percent. If this alternative is feasible, then a Distributed Generation Alternative should be a viable alternative. For these reasons, we strongly request the County revise the DEIR and analyze the Distributed Generation Alternative as the Preferred Alternative in the CEQA document, as it appears to be a viable alternative.

#### **Connected Project to Federal Action**(s)

From the information presented in the DEIR, the Council believes the Project is a "connected" project to a federal action, because the WAPA upgrades needed to accept the electricity generated by the Project and need for a right-or-way (ROW) grant from the Bureau of Land Management (BLM) for upgrades. According to 40 Code of Federal Regulations 1508.25(a)(1), "[a]ctions are connected if they:

- (i) Automatically trigger other actions which may require environmental impact statements.
- (ii) Cannot or will not proceed unless other actions are taken previously or simultaneously.
- (iii) Are interdependent parts of a larger action and depend on the larger action for their justification."

From information presented in the DEIR, one or more of these three requirements appears to apply, making this Project a connected action. According to the Council on Environmental Quality (1997) "the range of actions that must be considered includes not only the project proposal but all connected and similar actions that could contribute to cumulative effects." Consequently, this would require that WAPA or BLM analyze all connected actions (the Project, upgrades, and ROW issuance) in a National Environmental Policy Act (NEPA) document. Consequently, we request that the DEIR be reissued as a NEPA/CEQA, joint EIR/EIS (environmental impact statement) document or explain in the Revised DEIR why the Project is not a connected action under NEPA regulations.

#### **Compliance with California Executive Order N-82-20**

On October 7, 2020, Governor Newsom issued Executive Order N-82-20<sup>2</sup> to combat the biodiversity crisis. In the DEIR, the Project objectives are listed as renewable energy goals, creation of green jobs (we are not sure what green jobs would be created as construction and maintenance workers would need to commute during the estimated 14-month construction period and 35-year operations and maintenance period), and siting and designing the Project in an environmentally responsible

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 $<sup>^2</sup>$  https://www.dropbox.com/s/wytoq87u36xhaya/%24Climate%20Change%20Eecutive%20Order%2010.07.2020-EO-N-82-20-.pdf?dl=0

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manner consistent with current County guidelines. We found no information on compliance with this executive order on combating the biodiversity crisis, especially with respect to the Mojave desert tortoise and other wildlife species. Given the importance of this resource topic (e.g., Governor's October 7, 2020 Executive Order) and the rapid and substantial impacts to many Mojave Desert species and the ecosystem occurring from climate change (Smith et al. 2023), we request that an analysis of the proposed action on climate change and wildlife including the tortoise be included in the revised DEIR/EIS.

#### **Climate Change**

The DEIR has a section that analyzes impacts to air quality from a human health perspective. However, we found no section that analyzes the impacts of the proposed Project or alternatives, including the construction, operation and maintenance, and decommissioning phases, on climate change and effects on wildlife and habitats (e.g., invasive plant species, increased wildfire frequency/size/intensity, loss of habitat, etc.)

Vegetation sequesters carbon. Studies around the world have shown that desert ecosystems can play an important role in sequestering carbon. For example, the California deserts account for nearly 10 percent of the state's carbon sequestration; below ground in soil and root systems, and above ground in biomass. Protecting this biome can contribute to securing carbon stores in the state (MDLT 2021). However, when plants die, they release carbon from their roots, stems, and leaves into the atmosphere and contribute to climate change. Given the current climate change conditions, there is an increasing need for carbon sequestration, not carbon release; therefore, there is a growing need to increase the biomass of native plants including in plants int California deserts.

The proposed Project would result in the loss/degradation of native plants and their ability to sequester carbon for decades or longer. In addition, the proposed Project, when combined with the numerous actions that have occurred in the eastern Mojave and Colorado deserts in the County and southern California that destroy vegetation, would be contributing to climate change. Consequently, the County should conduct a cumulative impacts analysis of the proposed Project and alternatives with respect to climate change. Cumulative impacts should be analyzed and presented with referenced or supporting data in the revised DEIR/EIS. Given the importance of this resource topic (e.g., Executive Order N-82-20) and its rapid and substantial impacts to many Mojave Desert species and the ecosystem (Smith et al. 2023), we request that an analysis of the proposed Project and alternatives on the impacts to climate change and biodiversity, including the tortoise, be included in the revised DEIR/EIS. In addition, the Council requests the County develop and implement mitigation to avoid or fully offset the impacts to climate change from the proposed Project and alternatives.

#### **Environmental Impact Analysis**

As general observation, we were surprised at the paucity of scientific reports and journal articles cited in the DEIR to analyze impacts of the proposed Project and alternatives and the effectiveness of mitigation on the DEIR. We suggest the County revise the DEIR/EIS to include scientific citations in its analysis of impacts and mitigation effectiveness, and decisions.

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<u>Air Quality</u>: In Chapter 4 – Environmental Impact Analysis under Air Quality, please note that U.S. Environmental Protection Agency has proposed to reduce the National Ambient Air Quality Standards for Particulate Matter (PM2.5) to 9.0 to 10.0  $\mu$ g/m3 (<u>https://www.epa.gov/pm-pollution/proposed-decision-reconsideration-national-ambient-air-quality-standards-particulate</u>). We request that the DEIR/EIS be updated to include this information.

<u>Aesthetics, Glint, and Glare</u>: The DEIR discusses the impacts of glare to "[p]otential viewers of the facility primarily include motorists on U.S. Route 95 and residents." "The solar PV panels would not create a substantial source of glare due to the use of anti-reflective coating on the panels and the elevation of potential receptors relative to the facility." Potential receptors appear to be limited to where people are likely to be on the ground near the Project. We found no analysis of impacts to wildlife from glare such as "lake effect" to wildlife species, especially birds (Koscuich et al. 2020). Please revise the DEIR/EIS to include this impact.

<u>Mitigation Measures</u>: Section 4.3.8 describes the mitigation measures that would be implemented to minimize potential impacts to biological resources. Those that when implemented would likely result in minimizing direct mortality of tortoises include:

- BIO-1. A biological monitor shall be present prior to initiation of ground disturbing activities to demark limit of disturbance boundaries, conduct pre-construction sweeps, and inspect compliance with project protection measures.
- BIO-2. Desert riparian vegetation shall be avoided to the greatest extent possible within Vidal Wash and Drainage Systems 5 and 6 to preserve habitat for the sensitive species with potential to nest and forage in these areas.
- BIO-3. An environmental training program shall be developed and presented to all crew members prior to the beginning of all project construction.
- BIO-5. If a sensitive species is found, the species shall be relocated out of harm's way according to the capture/relocation plan. Any mortalities shall be reported to the agencies and County of San Bernardino. A final monitoring report will be submitted to CDFW [California Department of Fish and Wildlife] and County of San Bernardino. The annual report shall include a summary of pre-construction surveys, biological monitoring, avoidance measures implemented, and whether the avoidance measures were effective.
- BIO-8. Temporary and permanent impacts to all jurisdictional resources shall be compensated through a combination of habitat creation (i.e., establishment), enhancement, preservation, and/or and restoration at a minimum of a 1:1 ratio or as required by the permitting agencies. Any creation, enhancement, preservation, and/or restoration effort shall be implemented pursuant to a Habitat Restoration Plan, which shall include success criteria and monitoring specifications, and shall be approved by the permitting agencies and County of San Bernardino.
- Temporarily impacted drainage features shall be recontoured to pre-construction conditions. Temporary impacts shall be restored sufficient to compensate for the impact to the satisfaction of the permitting agencies (depending on the location of the impact). If restoration of temporary impact areas is not possible to the satisfaction of the appropriate agency, the temporary impact shall be considered a permanent impact and compensated accordingly.

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The DEIR concludes, that "[w]ith the implementation of Mitigation Measures BIO-1 through BIO-11, the Project's impacts on biological resources would be reduced to less than significant.

These proposed mitigation measures are standard mitigation measures that have been implemented for numerous years. They focus on direct impacts to biological resources. They do not mitigate indirect or cumulative impacts or the temporal loss of the functions and values of the biological resources destroyed/degraded. For the Mojave desert tortoise, its ongoing decline since listing (USFWS 2015, 2016, 2018, 2019, 2020, 2022a, 2022b; Allison and McLuckie 2018) is attributed to the direct, indirect, and cumulative impacts of human actions (USFWS 2011). While mitigating many of the direct impacts of proposed projects to the tortoise has been the practice for more than thirty years, this mitigation has been unsuccessful in halting the decline in tortoise abundance and density for numerous reasons including failure to mitigate indirect and cumulative impacts to the tortoise.

By attaching Appendix A to this comment letter, we would like to enter into the record an accounting of the science-based, observed declines in tortoise populations, which are intended to inform and be included in the new analysis in the DEIR/EIS. We note that this same information was provided to the County on 4/30/2022 in scoping comments by the Council (Desert Tortoise Council 2022<sup>3</sup>), yet there is nothing in the DEIR to suggest that our scoping comments were received, and certainly no evidence the information informed the analysis and decisions in the DEIR. We contend that the DEIR is deficient in this and other regards given herein, and is further evidence why a more detailed analysis is required in the DEIR/EIS.

In Appendix D - Biological Resources Report of the DEIR, the document says the tortoise is "considered absent from the Project Area." However, we were unable to find in the DEIR a conclusion that the Project would have no impact on the tortoise. The Council contends that given the published scientific research/studies on the tortoise, the proposed Project will adversely impact the tortoise. For example, the tortoise likely uses the Project Area but may not be a permanent resident of the Project Site. Please see our comments under "Appendix D – Biological Resources."

We request that the DEIR/EIS be revised and analyze the indirect and cumulative impacts to the tortoise and the temporal loss of the functions and values of the biological resources destroyed/degraded from implementation of the proposed Project and alternatives. A few of the indirect impacts that should be analyzed are mentioned below.

**Indirect Impact – Heat Sink Effect**: The CEQA document should include an analysis of the heat sink effect from solar energy plants and how this would impact the tortoise and other wildlife species near the Project. This analysis is needed because of the biodiversity crisis and because climate change is resulting in increasing high temperatures that now exceed the physiological limits of many organisms, and even widespread species are threatened with extinction (Smith et al. 2023).

<u>Indirect Impact – Road Effects</u>: A few hundred workers would be employed during the construction of the proposed Project. We presume that workers would travel from Blythe, or farther away on a daily basis. This increased traffic on roads to the Project Site may increase the

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<sup>&</sup>lt;sup>3</sup> <u>https://www.dropbox.com/s/t5emgaizjb33nxl/Vidal%20Energy%20Project.4-30-2022.pdf?dl=0</u>

risk of death or injury to the Mojave desert tortoise and other wildlife species. All direct and indirect impacts from the road effect zone should be analyzed in the revised DEIR and fully mitigated. Exclusion fencing for tortoises and other wildlife species and other mitigation measures should be considered to determine the most effective measures to implement. In that respect, we enter into the public record Appendix B, which provides a wealth of information about impacts associated vehicles, which we expect to be included in the revised DEIR/EIS.

<u>Indirect Impact – Subsidized Predators of the Tortoise and Other Wildlife</u>: Common ravens (*Corvus corax*) are known predators of the Mojave desert tortoise and their numbers have increased substantially because of human subsidies of food, water, and sites for nesting, roosting, and perching to hunt (Boarman 1993, 2003; Kristan and Boarman 2003). Appendix D of the DEIR indicated common ravens were "commonly observed or detected on [the Project] site."

The transmission line to the WAPA transmission system (i.e., the gen-tie line) would include construction and maintenance of towers or poles. We request these structures be the tubular design monopole with a steep-pointed apex and insulators on down-sloping cross arms. These are preferable to lattice towers, which should not be used, as such towers provide substrates or platforms for nest construction by common ravens. This human subsidy of ravens and resulting mortality of tortoises from an increased number of predators is an example of an indirect impact that the DEIR did not analyze. We request that this analysis be include in the revised DEIR/EIS.

For local impacts, the revised DEIR/EIS should include mitigation that reduces/eliminates human subsidies of food and water, and for the common raven, sites for nesting, roosting, and perching to address local impacts (footprint of the proposed Project). This includes buildings, fences, and other vertical structures associated with the Project site. For example, under Project Construction, "Construction water usage is anticipated to be approximately 240 acre-feet (AF) during the construction period of 14 months." We request that at no time should water applied from a human source be allowed to pond or form puddles on the ground or on roofs.

Mitigation measures should include science-based monitoring and adaptive management throughout all phases of the Project or alternative selected to collect data on the effectiveness of the mitigation and implement changes to reduce/eliminate predation on the tortoise if existing measures are not effective.

For regional and cumulative impacts, the County should require CORE to participate in an effort to mitigate regional and cumulative impacts. For example, in California, the Project Proponent should contribute to the National Fish and Wildlife Foundation's Raven Management Fund to help mitigation for regional and cumulative impacts.

## **Appendix D – Biological Resources**

According to the report in Appendix D, protocol level surveys were conducted to look for presence/sign of tortoise and burrowing owl in 2020. Based on the results of these surveys, the report concludes that tortoises were not present in the Project Area during the survey. We note the surveys were conducted 2+ years ago and should probably be conducted again in spring 2023 (see below).

C1-15 cont

Although the tortoise sign detected during the protocol pre-project survey was minimal, tortoises have been documented using washes as movement paths or corridors (Hromada et al. 2020). In addition, the Project Site is about three miles from designated critical habitat for the tortoise and the Chemehuevi Tortoise Conservation Area (TCA). Tortoises have been documented making periodic forays of more than 7 miles at a time (Berry 1986a) and travel up to 0.6 mile a day (Berry 1986b). Home range size is significantly reduced during drought years (Duda et al. 1999). Because southern California has been experiencing a drought for the last several years, with above average rainfall occurring in 2022-2023, tortoise survey efforts in spring 2023 would likely yield a different result than those from 2020.

Because of the duration of the proposed Project (i.e., 35 years for operations and maintenance plus addition time for construction and decommissioning), the presence of multiple washes of various sizes running through the Project site, the proximity of critical habitat and a TCA, and the documented multi-mile movements by tortoises in one year, and their use of some washes as paths or natural corridors for tortoise movements (Hromada et a. 2020), there is a likelihood that tortoises may occur on the Project Site during one or more of its phases. We request that the revised DEIR/EIS discuss the actions that would be implemented when a tortoise is encountered during construction, operations, and maintenance, or decommissioning phases of the Project. Such interactions would likely require coordination/consultation with U.S. Fish and Wildlife Service (USFWS). In addition, we request that information on tortoises using washes as movement paths or corridors (Jennings et al. 2015, among others) be added to the section in Appendix D on Wildlife Movement Corridors and Jurisdictional Waters – State Permits.

We request that the USFWS be included in the agencies consulted regarding the proposed Project. The Army Corps of Engineers is mentioned regarding the process of determining if waters are jurisdictional under the Clean Water Act. The USFWS should be listed as an agency that is consulted to determine compliance with the Federal Endangered Species Act (FESA).

If the proposed Project is a connected action to a federal action, the threshold for compliance with the FESA changes from whether the Project is likely to result in take of the tortoise to whether the Project is likely to adversely affect the tortoise. This adverse impact may be from direct, indirect, or cumulative impacts.

The biological report said a tortoise burrow was found but the burrow "was filled with spider webs and appeared to have been in disuse for some time." As experienced tortoise biologists know, spiderwebs can be constructed in a tortoise burrow in less than 24 hours. Because tortoises construct and use numerous burrows, know their locations, and reuse them at various times during the year(s) when traversing through their annual year or multiple year home ranges (Harless et al. 2009, Rautenstrauch et al. 2002), a burrow may not have been used by a tortoise for several days, weeks, or months. Please clarify this information in the revised DEIR/EIS.

<u>Sections 5.6 Special Status Species and 6.4 Sensitive Species – Desert Kit Fox</u>: We request that the following information be added to this section. The desert kit fox (*Vulpes macrotis*) is protected under Title 14 of the California Code of Regulations §460. "Fisher, marten, river otter, desert kit fox and red fox may not be taken at any time."

C1-17 cont

C1-18

Page 61 says – "An environmental training program shall be developed and presented to all crew members prior to the beginning of all project construction. The training shall describe special-status wildlife species and sensitive habitats that could occur within project work areas, protection afforded to these species and habitats, and avoidance and minimization measures required to avoid and/or minimize impacts from the project." We recommend this training program be presented to crew employed during operation, maintenance, and decommissioning as take of special-status species could occur during these phases of the Project.

In addition, we request that an incentive program for protection of special-status wildlife species be developed and implemented that would be applied to all employees and contractors. This program would add to the eyes and ears of qualified biologists and monitors present during the Project. Incentive programs have been used in the past during some construction projects and have been highly effective at eliminating take, mortality, and injury. Incentives for finding special status species and informing the authorized biologist or monitors have included monetary rewards but other incentives could be offered (e.g., additional vacation hours, etc.).

We appreciate this opportunity to provide comments on this Project and trust they will help protect tortoises during any resulting authorized activities. Herein, we reiterate that the Desert Tortoise Council wants to be identified as an Affected Interest for this and all other projects funded, authorized, or carried out by the County that may affect species of desert tortoises, and that any subsequent environmental documentation for this Project is provided to us at the contact information listed above. Additionally, we ask that you respond in an email that you have received this comment letter so we can be sure our concerns have been registered with the appropriate personnel and office for this project.

Respectfully,

(00 22RA

Edward L. LaRue, Jr., M.S. Ecosystems Advisory Committee, Chairperson Desert Tortoise Council

cc: California State Clearinghouse, state.clearinghouse@opr.ca.gov

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- Michelle Shelly Lynch, District Manager, California Desert District, Bureau of Land Management, <u>BLM CA Web CD@blm.gov</u>
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C1-21

C1-22

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#### Appendix A. Demographic Status and Trend of the Mojave Desert Tortoise (Gopherus agassizii)

We provide the following information on the status and trend of the listed population of the desert tortoise to assist the County with its analysis of the direct, indirect, and cumulative impacts of the Proposed Project on the Mojave desert tortoise.

BLM's implementation of a conservation strategy for the Mojave desert tortoise in its resource management plans through 2020 has resulted in the following changes in the status for the tortoise throughout its range and in Nevada from 2004 to 2014 (Table 1; USFWS 2015) and 2004 to 2020 (Table 2). There are 17 populations of Mojave desert tortoise described below that occur in the Critical Habitat Units (CHUs) and Tortoise Conservation Areas (TCAs); 14 are on lands managed by the BLM.

The Desert Tortoise Council (Council) has serious concerns about direct, indirect, and cumulative sources of human mortality for the Mojave desert tortoise given the status and trend of the species range-wide, within each of the five recovery units, and within the TCAs that comprise each recovery unit.

Densities of Adult Mojave Desert Tortoises: A few years after listing the Mojave desert tortoise under the Federal Endangered Species Act (FESA), the U.S. Fish and Wildlife Service (USFWS) published a Recovery Plan for the Mojave desert tortoise (USFWS 1994a). It contained a detailed population viability analysis. In this analysis, the minimum viable density of a Mojave desert tortoise population is 10 adult tortoises per mile<sup>2</sup> (3.9 adult tortoises per km<sup>2</sup>). This assumed a male-female ratio of 1:1 (USFWS 1994a, page C25) and certain areas of habitat with most of these areas geographically linked by adjacent borders or corridors of suitable tortoise habitat. Populations of Mojave desert tortoises with densities below this density are in danger of extinction (USFWS 1994a, page 32). The revised recovery plan (USFWS 2011) designated five recovery units for the Mojave desert tortoise that are intended to conserve the genetic, behavioral, and morphological diversity necessary for the recovery of the entire listed species (Allison and McLuckie 2018).

Range-wide, densities of adult Mojave desert tortoises declined more than 32% between 2004 and 2014 (Table 1) (USFWS 2015). At the recovery unit level, between 2004 and 2014, densities of adult desert tortoises declined, on average, in every recovery unit except the Northeastern Mojave (Table 1). Adult densities in the Northeastern Mojave Recovery Unit increased 3.1% per year (SE = 4.3%), while the other four recovery units declined at different annual rates: Colorado Desert (– 4.5%, SE = 2.8%), Upper Virgin River (–3.2%, SE = 2.0%), Eastern Mojave (–11.2%, SE = 5.0%), and Western Mojave (–7.1%, SE = 3.3%)(Allison and McLuckie 2018). However, the small area and low starting density of the tortoises in the Northeastern Mojave Recovery Unit (lowest density of all Recovery Units) resulted in a small overall increase in the number of adult tortoises by 2014 (Allison and McLuckie 2018). In contrast, the much larger areas of the Eastern Mojave, Western Mojave, and Colorado Desert recovery units, plus the higher estimated initial densities in these areas, explained much of the estimated total loss of adult tortoises since 2004 (Allison and McLuckie 2018).

At the population level, represented by tortoises in the TCAs, densities of 10 of 17 monitored populations of the Mojave desert tortoise declined from 26% to 64% and 11 have densities less than 3.9 adult tortoises per km<sup>2</sup> (USFWS 2015).

<u>Population Data on Mojave Desert Tortoise</u>: The Mojave desert tortoise was listed as threatened under the FESA in 1990. The listing was warranted because of ongoing population declines throughout the range of the tortoise from multiple human-caused activities. Since the listing, the status of the species has changed. Population numbers (abundance) and densities continue to decline substantially (please see Tables 1 and 2).

**Table 1**. Summary of 10-year trend data for 5 Recovery Units and 17 CHUs/TCAs for the Mojave desert tortoise, *Gopherus agassizii* (=Agassiz's desert tortoise). The table includes the area of each Recovery Unit and CHU/TCA, percent of total habitat for each Recovery Unit and CHU/TCA, density (number of breeding adults/km<sup>2</sup> and standard errors = SE), and the percent change in population density between 2004-2014. Populations below the viable level of 3.9 adults/km<sup>2</sup> (10 adults per mi<sup>2</sup>) (assumes a 1:1 sex ratio) and showing a decline from 2004 to 2014 are in red (Allison and McLuckie 2018, USFWS 2015).

Recovery Unit Designated CHU/TCA	Surveyed area (km <sup>2</sup> )	% of total habitat area in Recovery Unit & CHU/TCA	2014 density/km <sup>2</sup> (SE)	% 10-year change (2004– 2014)		
Western Mojave, CA	6,294	24.51	2.8 (1.0)	-50.7 decline		
Fremont-Kramer	2,347	9.14	2.6 (1.0)	-50.6 decline		
Ord-Rodman	852	3.32	3.6 (1.4)	-56.5 decline		
Superior-Cronese	3,094	3,094 12.05 2.4		-61.5 decline		
Colorado Desert, CA	11,663	45.42	4.0 (1.4)	-36.25 decline		
Chocolate Mtn AGR, CA	713	2.78	7.2 (2.8)	-29.77 decline		
Chuckwalla, CA	2,818	10.97	3.3 (1.3)	-37.43 decline		
Chemehuevi, CA	3,763	14.65	2.8 (1.1)	-64.70 decline		
Fenner, CA	1,782	6.94	4.8 (1.9)	-52.86 decline		
Joshua Tree, CA	1,152	4.49	3.7 (1.5)	+178.62 increase		
Pinto Mtn, CA	508	1.98	2.4 (1.0)	-60.30 decline		
Piute Valley, NV	927	3.61	5.3 (2.1)	+162.36 increase		
Northeastern Mojave	4,160	16.2	4.5 (1.9)	+325.62 increase		
Beaver Dam Slope, NV, UT, AZ	750	2.92	6.2 (2.4)	+370.33 increase		
Coyote Spring, NV	960	3.74	4.0 (1.6)	+ 265.06 increase		
Gold Butte, NV & AZ	1,607	6.26	2.7 (1.0)	+ 384.37 increase		
Mormon Mesa, NV	844	3.29	6.4 (2.5)	+ 217.80 increase		
Eastern Mojave, NV & CA	3,446	13.42	<b>1.9 (0.7)</b>	-67.26 decline		
El Dorado Valley, NV	999	3.89	1.5 (0.6)	-61.14 decline		
Ivanpah Valley, CA	2,447	9.53	2.3 (0.9)	-56.05 decline		
Upper Virgin River	115	0.45	15.3 (6.0)	-26.57 decline		
Red Cliffs Desert	115	0.45	15.3 (6.0)	-26.57 decline		
Total amount of land	25,678	100.00		-32.18 decline		

<u>Density of Juvenile Mojave Desert Tortoises</u>: Survey results indicate that the proportion of juvenile desert tortoises has been decreasing in all five recovery units since 2007 (Allison and McLuckie 2018). The probability of encountering a juvenile tortoise was consistently lowest in the Western Mojave Recovery Unit. Allison and McLuckie (2018) provided reasons for the decline in juvenile desert tortoises in all recovery units. These included decreased food availability for adult female tortoises resulting in reduced clutch size, decreased food availability resulting in increased mortality of juvenile tortoises, prey switching by coyotes from mammals to tortoises, and increased abundance of common ravens that typically prey on smaller desert tortoises.

Declining adult tortoise densities through 2014 have left the Eastern Mojave adult numbers at 33% (a 67% decline of their 2004 levels) (Allison and McLuckie 2018, USFWS 2015). Such steep declines in the density of adults are only sustainable if there are suitably large improvements in reproduction and juvenile growth and survival. However, the proportion of juveniles has not increased anywhere in the range of the Mojave desert tortoise since 2007, and in the Eastern Mojave Recovery Unit the proportion of juveniles in 2014 declined from 14 to 11 percent (a 21% decline) of their representation since 2007 (Allison and McLuckie 2018).

The USFWS and Utah Division of Wildlife Resources have continued to collect density data on the Mojave desert tortoise since 2014. The results are provided in Table 2 along with the analysis USFWS (2015) conducted for tortoise density data from 2004 through 2014. These data show that adult tortoise densities in most Recovery Units continued to decline in density since the data collection methodology was initiated in 2004. In addition, in the Northeastern Mojave Recovery Unit that had shown an overall increase in tortoise density between 2004 and 2014, subsequent data indicate a decline in density since 2014 (USFWS 2016, 2018, 2019, 2020, 2022a, 2022b).

**Table 2**. Summary of data for Agassiz's desert tortoise, *Gopherus agassizii* (=Mojave desert tortoise) from 2004 to 2021 for the 5 Recovery Units and 17 CHUs/TCAs. The table includes the area of each Recovery Unit and CHU/TCA, percent of total habitat for each Recovery Unit and CHU/TCA, density (number of breeding adults/km<sup>2</sup> and standard errors = SE), and percent change in population density between 2004-2014 (USFWS 2015). Populations below the viable level of 3.9 breeding individuals/km<sup>2</sup> (10 breeding individuals per mi<sup>2</sup>) (assumes a 1:1 sex ratio) (USFWS 1994a, 2015) or showing a decline from 2004 to 2014 are in **red.** 

Recovery Unit: Designated CHU/TCA &	% of total habitat area in Recovery Unit & CHU/TCA	2014 density/ km <sup>2</sup> (SE)	% 10- year change (2004– 2014)	2015 density/ km <sup>2</sup>	2016 density/ km <sup>2</sup>	2017 density/ km <sup>2</sup>	2018 density/ km <sup>2</sup>	2019 density/ km <sup>2</sup>	2020 density/ km <sup>2</sup>	2021 density/ km <sup>2</sup>
Western Mojave, CA	24.51	2.8 (1.0)	-50.7 decline							
Fremont- Kramer	9.14	2.6 (1.0)	-50.6 decline	4.5	No data	4.1	No data	2.7	1.7	No data
Ord-Rodman	3.32	3.6 (1.4)	-56.5 decline	No data	No data	3.9	2.5/3.4*	2.1/2.5*	No data	1.9/2.5*
Superior- Cronese	12.05	2.4 (0.9)	-61.5 decline	2.6	3.6	1.7	No data	1.9	No data	No data
Colorado Desert, CA	45.42	4.0 (1.4)	-36.25 decline							
Chocolate Mtn AGR, CA	2.78	7.2 (2.8)	-29.77 decline	10.3	8.5	9.4	7.6	7.0	7.1	3.9
Chuckwalla, CA	10.97	3.3 (1.3)	-37.43 decline	No data	No data	4.3	No data	1.8	4.6	2.6
Chemehuevi, CA	14.65	2.8 (1.1)	-64.70 decline	No data	1.7	No data	2.9	No data	4.0	No data
Fenner, CA	6.94	4.8 (1.9)	-52.86 decline	No data	5.5	No data	6.0	2.8	No data	5.3
Joshua Tree, CA	4.49	3.7 (1.5)	+178.62 increase	No data	2.6	3.6	No data	3.1	3.9	No data

Recovery Unit: Designated CHU/TCA	% of total habitat area in Recovery Unit & CHU/TCA	2014 density/km <sup>2</sup> (SE)	% 10- year change (2004– 2014)	2015	2016	2017	2018	2019	2020	2021
Pinto Mtn, CA	1.98	2.4 (1.0)	-60.30 decline	No data	2.1	2.3	No data	1.7	2.9	No data
Piute Valley, NV	3.61	5.3 (2.1)	+162.36 increase	No data	4.0	5.9	No data	No data	No data	3.9
Northeastern Mojave AZ, NV, & UT	16.2	4.5 (1.9)	+325.62 increase							
Beaver Dam Slope, NV, UT, & AZ	2.92	6.2 (2.4)	+370.33 increase	No data	5.6	1.3	5.1	2.0	No data	No data
Coyote Spring, NV	3.74	4.0 (1.6)	+ 265.06 increase	No data	4.2	No data	No data	3.2	No data	No data
Gold Butte, NV & AZ	6.26	2.7 (1.0)	+ 384.37 increase	No data	No data	1.9	2.3	No data	No data	2.4
Mormon Mesa, NV	3.29	6.4 (2.5)	+ 217.80 increase	No data	2.1	No data	3.6	No data	5.2	5.2
Eastern Mojave, NV & CA	13.42	1.9 (0.7)	-67.26 decline							
El Dorado Valley, NV	3.89	1.5 (0.6)	-61.14 decline	No data	2.7	5.6	No data	2.3	No data	No data
Ivanpah Valley, CA	9.53	2.3 (0.9)	-56.05 decline	1.9	No data	No data	3.7	2.6	No data	1.8

Recovery Unit: Designated CHU/TCA	% of total habitat area in Recovery Unit & CHU/TCA	2004 density/ km <sup>2</sup>	2014 density/km <sup>2</sup> (SE)	% 10- year change (2004– 2014)	2015	2016	2017	2018	2019	2020	2021
Upper Virgin River, UT & AZ	0.45		15.3 (6.0)	-26.57 decline							
Red Cliffs Desert**	0.45	29.1 (21.4- 39.6)**	15.3 (6.0)	-26.57 decline	15.0	No data	19.1	No data	17.2	No data	
Range-wide Area of CHUs - TCAs/Range- wide Change in Population Status	100.00			-32.18 decline							

\*This density includes the adult tortoises translocated from the expansion of the MCAGCC, that is resident adult tortoises and translocated adult tortoises.

\*\*Methodology for collecting density data initiated in 1999.
Abundance of Mojave Desert Tortoises: Allison and McLuckie (2018) noted that because the area available to tortoises (i.e., tortoise habitat and linkage areas between habitats) is decreasing, trends in tortoise density no longer capture the magnitude of decreases in abundance. Hence, they reported on the change in abundance or numbers of the Mojave desert tortoise in each recovery unit (Table 2). They noted that these estimates in abundance are likely higher than actual numbers of tortoises, and the changes in abundance (i.e., decrease in numbers) are likely lower than actual numbers because of their habitat calculation method. They used area estimates that removed only impervious surfaces created by development as cities in the desert expanded. They did not consider degradation and loss of habitat from other sources, such as the recent expansion of military operations (753.4 km<sup>2</sup> so far on Fort Irwin and the Marine Corps Air Ground Combat Center), intense or large scale fires ( e.g., 576.2 km<sup>2</sup> of critical habitat that burned in 2005), development of utility-scale solar facilities (as of 2015, 194 km<sup>2</sup> have been permitted) (USFWS 2016), or other sources of degradation or loss of habitat (e.g., recreation, mining, grazing, infrastructure, etc.). Thus, the declines in abundance of Mojave desert tortoise are likely greater than those reported in Table 3.

**Table 3**. Estimated change in abundance of adult Mojave desert tortoises in each recovery unit between 2004 and 2014 (Allison and McLuckie 2018). Decreases in abundance are in red.

<b>Recovery Unit</b>	Modeled	2004	2014	Change in	Percent
	Habitat (km <sup>2</sup> )	Abundance	Abundance	Abundance	Change in
					Abundance
Western Mojave	23,139	131,540	64,871	-66,668	-51%
Colorado Desert	18,024	103,675	66,097	-37,578	-36%
Northeastern	10,664	12,610	46,701	34,091	270%
Mojave					
Eastern Mojave	16,061	75,342	24,664	-50,679	-67%
Upper Virgin River	613	13,226	10,010	-3,216	-24%
Total	68,501	336,393	212,343	-124,050	-37%

<u>Habitat Availability</u>: Data on population density or abundance does not indicate population viability. The area of protected habitat or reserves for the subject species is a crucial part of the viability analysis along with data on density, abundance, and other population parameters. In the Desert Tortoise (Mojave Population) Recovery Plan (USFWS 1994a), the analysis of population viability included population density and size of reserves (i.e., areas managed for the desert tortoise) and population numbers (abundance) and size of reserves. The USFWS Recovery Plan reported that as population densities for the Mojave desert tortoise decline, reserve sizes must increase, and as population numbers (abundance) for the Mojave desert tortoise decline, reserve sizes must increase (USFWS 1994a). In 1994, reserve design (USFWS 1994a) and designation of critical habitat (USFWS 1994b) were based on the population viability analysis from numbers (abundance) and densities of population so f the Mojave desert tortoise in the early 1990s. Inherent in this analysis is that the lands be managed with reserve level protection (USFWS 1994a, page 36) or ecosystem protection as described in section 2(b) of the FESA, and that sources of mortality be reduced so recruitment exceeds mortality (that is, lambda > 1)(USFWS 1994a, page C46).

Habitat loss would also disrupt the prevailing population structure of this widely distributed species with geographically limited dispersal (isolation by resistance Dutcher et al. 2020).

Allison and McLuckie (2018) anticipate an additional impact of this habitat loss/degradation is decreasing resilience of local tortoise populations by reducing demographic connections to neighboring populations (Fahrig 2007). Military and commercial operations and infrastructure projects that reduce tortoise habitat in the desert are anticipated to continue (Allison and McLuckie 2018) as are other sources of habitat loss/degradation.

Allison and McLuckie (2018) reported that the life history of the Mojave desert tortoise puts it at greater risk from even slightly elevated adult mortality (Congdon et al. 1993; Doak et al. 1994), and recovery from population declines will require more than enhancing adult survivorship (Spencer et al. 2017). The negative population trends in most of the TCAs for the Mojave desert tortoise indicate that this species is on the path to extinction under current conditions (Allison and McLuckie 2018). They state that their results are a call to action to remove ongoing threats to tortoises from TCAs, and possibly to contemplate the role of human activities outside TCAs and their impact on tortoise populations inside them.

Densities, numbers, and habitat for the Mojave desert tortoise declined between 2004 and 2014 and densities continue to decline in most Recovery Units since 2014. As reported in the population viability analysis, to improve the status of the Mojave desert tortoise, reserves (area of protected habitat) must be established and managed. When densities of tortoises decline, the area of protected habitat must increase. When the abundance of tortoises declines, the area of protected habitat must increase. We note that the Desert Tortoise (Mojave Population) Recovery Plan was released in 1994 and its report on population viability and reserve design was reiterated in the 2011 Revised Recovery Plan as needing to be updated with current population data (USFWS 2011, p. 83). With lower population densities and abundance, a revised population viability analysis would show the need for greater areas of habitat to receive reserve level of management for the Mojave desert tortoise. In addition, we note that none of the recovery actions that are fundamental tenets of conservation biology has been implemented throughout most or all of the range of the Mojave desert tortoise.

<u>IUCN Species Survival Commission</u>: The Mojave desert tortoise is now on the list of the world's most endangered tortoises and freshwater turtles. It is in the top 50 species. The International Union for Conservation of Nature's (IUCN) Species Survival Commission, Tortoise and Freshwater Turtle Specialist Group, now considers Mojave desert tortoise to be Critically Endangered (Berry et al. 2021). As such, it is a "species that possess an extremely high risk of extinction as a result of rapid population declines of 80 to more than 90 percent over the previous 10 years (or three generations), a current population size of fewer than 50 individuals, or other factors." It is one of three turtle and tortoise species in the United States to be critically endangered. This designation is more grave than endangered.



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#### **DESERT TORTOISE COUNCIL**

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Via email only

April 30, 2022

County of San Bernardino, Land Use Services Department Attn.: Jim Morrissey, Planner 385 North Arrowhead Avenue, First Floor San Bernardino, CA 92415 Email: Jim.Morrissey@lus.sbcounty.gov

RE: Notice of Preparation of a Draft Environmental Impact Report for Vidal Energy Project - PROJ-2021-00012

Dear Mr. Morrissey,

The Desert Tortoise Council (Council) is a non-profit organization comprised of hundreds of professionals and laypersons who share a common concern for wild desert tortoises and a commitment to advancing the public's understanding of desert tortoise species. Established in 1975 to promote conservation of tortoises in the deserts of the southwestern United States and Mexico, the Council routinely provides information and other forms of assistance to individuals, organizations, and regulatory agencies on matters potentially affecting desert tortoises within their geographic ranges.

We appreciate this opportunity to provide scoping comments on the above-referenced project, which will be considered in a forthcoming Draft Environmental Impact Report (DEIR). Given the location of the proposed project in habitats likely occupied by Mojave desert tortoise (*Gopherus agassizii*) (synonymous with Agassiz's desert tortoise), our comments include recommendations that will enhance protection of this species and its habitat during activities authorized by the County of San Bernardino (County), which we recommend be added to project terms and conditions in the authorizing document (e.g., right of way grant, etc.) as appropriate. Please accept, carefully review, and include in the relevant project file the Council's following comments and attachments for the proposed project.

### **Project Description**

"CDH Vidal LLC (CORE) plans to construct and operate the Vidal Energy Project (Project), a solar photovoltaic (PV) electricity generation and energy storage facility that would produce up to 160 megawatts (MW) of solar power and include up to 640 megawatt hours (MWh) of energy storage capacity rate in a battery energy storage system (BESS) on up to approximately 1,220 acres of land. The Project would be supported by the existing, adjacent Western Area Power Administration (WAPA) 161-kilovolt (kV) overhead transmission corridor. The Project would include the construction of one on-site substation facility, which would collect and convert the power generated on-site for transmission in an overhead or underground line to the WAPA transmission system and interconnection location. The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, a Project substation, and operations and maintenance (O&M) facilities.

"The Project Site is located approximately 2.5 miles southeast of unincorporated Vidal, just east of U.S. Route 95, north of the Riverside County boundary, and west of the Colorado River (see Figure 1). The Project Site encompasses 1,220 acres within 21 privately owned parcels (in their entirety and portions of) that are in the process of lease acquisition by CORE. The County's Zoning Map identifies the zoning of the Project Site as Resource Conservation (RC), which provides sites for open space and recreational activities, single-family homes on very large parcels, and similar and compatible uses. Commercial renewable energy facilities are an allowable use within the RC land use zoning district. Existing development and disturbed areas within the Project Site include rural access roads that include access to the transmission line, scattered abandoned rural residences, garage (storage) areas, and several WAPA towers. The wash areas are currently being used by off-highway vehicles. Primary access to the Project would be provided via U.S. Route 95 onto a Project-controlled, dirt access road on the west side of the Project Site."

### **Scoping Comments**

First, we understand that comments were due on April 27, 2022 and these comments are three days late. This tardiness is due to the busy schedule of our volunteer staff responsible to write this letter, and because we only recently learned about this project from a third party, not from the County. In any case, we hope these comments are still received as County planners consider the environmental analysis of this project.

The purpose of scoping is to allow the public to participate in an "early and open process for determining the scope of issues to be addressed, and for identifying the significant issues related to a proposed action" (40 Code of Federal Regulations (CFR) 1501.7). The DEIR should discuss how this proposed project fits within the management structure of the current land management plan for the area [e.g., California Desert Conservation Area Plan (CDCA Plan) (BLM 1980 as amended]. It should provide maps of critical habitat for the Mojave desert tortoise (USFWS 1994a), Areas of Critical Environmental Concern (ACECs), and other areas identified for special management by BLM [e.g., National Conservation Lands (NCLs)]; U.S. Fish and Wildlife Service (USFWS) (e.g., linkage habitats between desert tortoise populations); Nevada Department of Wildlife (NDOW); other federal, state, and local agencies; and tribal lands.

We fully expect that the County will comply with all applicable statutes, regulations, Executive and Departmental Orders, and other requirements as they pertain to this project. The County should demonstrate in the DEIR that the proposed project meets all these requirements with respect to the tortoise, that:

- The proposed project will be in conformance with decisions in current land use plan(s), including the Desert Renewal Energy Conservation Plan (DRECP), even though that plan is applicable to public lands managed by the Bureau of Land Management (BLM);
- the proposed project will be consistent with priority conservation, restoration, and/or adaptation objectives in the best available landscape-scale information (e.g., for tortoise population connectivity, etc.);
- the applicant has coordinated with governments and agencies, including consideration of consistency with officially adopted plans and policies (e.g., recovery plans);
- the proposed project is in an area with low or comparatively low resource conflicts and where conflicts can be resolved (e.g., it is our understanding that portions of the project are in the designated tortoise Fenner Critical Habitat Unit, even though how much is not revealed in the Notice of Preparation (NOP);
- the proposed project will be located in, or adjacent to, previously contaminated or disturbed lands;
- the proposed project will minimize adverse impacts on important fish and wildlife habitats and migration/movement corridors including the desert tortoise;
- the proposed project will minimize impacts on lands with wilderness characteristics and the values associated with these lands;
- the proposed project will not adversely affect lands donated or acquired for conservation purposes, or mitigation lands identified in previously approved projects such as translocation areas for desert tortoise;
- significant cumulative impacts on resources of concern should not occur as a result of the proposed project (i.e., exceedance of an established threshold such population viability for the tortoise and connectivity of tortoise populations among recovery units); and,
- the County's analysis would use current data on the tortoise for the project area, population, pertinent Recovery Unit, and range wide, as population numbers and densities have substantially declined in most recovery units, so the County must use data/knowledge currently available on what is needed for habitat linkages for the tortoise (Allison and McLuckie 2018; USFWS 2021, 2022a, and 2022b).

Whereas we understand that the County serves as the Lead Agency and there is (apparently) no BLM involvement, we have serious concerns about BLM's commitment to manage effectively for the sustained yield of the tortoise, which also affects projects permitted by the County. These concerns include past actions regarding:

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- Mitigation to improve conditions within the connectivity areas, and if these options do not exist, mitigation may be applied toward the nearest tortoise conservation area (e.g., an ACEC for which tortoise had been identified in the Relevant and Important Criteria or critical habitat); and
- a plan included in the DEIR that would effectively monitor desert tortoise impacts, including verification that desert tortoise connectivity corridors are functional. The required Federal Endangered Species Act (FESA) consultation should further define this monitoring plan.

Regarding the first concern, we believe that a multiagency approach is best to ensure the County is meeting its obligations, soliciting review and input from pertinent federal and state resource agencies, Tribal governments/agencies, and non-governmental organizations (NGOs). Mitigation of impacts should include, in priority order, avoidance, minimization and compensation for unavoidable impacts. Mitigation should at a minimum offset all direct, indirect, and cumulative impacts, especially given the status and trend of the tortoise (please see *Affected Environment - Status of the Populations of the Mojave Desert Tortoise* below). The County should ensure it is effectively implementing its section 10(A)(1b) conservation mandate under the FESA.

Mitigation should be applied only in areas where the lands are effectively managed for the benefit of the tortoise for both the short-term and long-term. As currently managed, BLM ACECs in Nevada and the California Desert Conservation Area are not meeting this criterion. Consequently, mitigation should be implemented on lands with a durable conservation designation, or on privately owned lands with a conservation easement or other legal instrument that ensures conservation in perpetuity. Please see *Mitigation Plans* below for additional concerns and requested requirements.

Regarding the second concern, a monitoring plan should (1) be scientifically and statistically credible; (2) be implementable; and (3) require the project proponent to implement adaptive management to correct land management practices if the mitigation is not accomplishing its intended purposes.

The Council expects that the County will describe the purpose and need for this project and develop and analyze other viable alternatives, such as rooftop solar, which we believe constitute "other reasonable courses of actions" (40 CFR 1508.25).

The Council supports alternatives to reduce the need for additional solar energy projects in relatively undisturbed habitats in the Mojave Desert. For example, the City of Los Angeles has implemented a rooftop solar Feed-in Tariff (FiT) program, the largest of its kind in America. The FiT program enables the owners of large buildings to install solar panels on their roofs, and sell the power they generate back to utilities for distribution into the power grid.

We request that County include an urban solar alternative. Under this alternative, owners of large buildings or parking areas would grant the project proponent permission to install solar panels on their roofs and cover parking areas, and sell the power they generate back to utilities for distribution into the power grid.

This approach puts the generation of electricity where the demand is greatest, in populated areas. It may also reduce transmission costs, greenhouse gas emissions from constructing energy projects far from the sources of power demand and materials for construction, the number of affected resources in the desert that must be analyzed under the California Environmental Quality Act (CEQA), and mitigation costs for direct, indirect, and cumulative impacts; monitoring and adaptive management costs; and habitat restoration costs following decommissioning. The DEIR should include an analysis of where the energy generated by this project would be sent and the needs for energy in those targeted areas that may be satisfied by urban solar. We request that at least one viable alternative be analyzed in the DEIR where electricity generation via solar energy is located much closer to the areas where the energy will be used, including generation in urban/suburban areas.

In addition, the County should include another viable alternative of locating solar projects on bladed or highly degraded tracts of land (e.g., abandoned agricultural fields). Such an alternative would not result in the destruction of desert habitats and mitigation for the lost functions and values of these habitats. These losses and mitigation are costly from an economic, environmental, and social perspective. We strongly oppose developing this project in critical habitat, which would set a precedent in San Bernardino County.

These two alternatives are important to consider to minimize or avoid the loss of vegetation that sequesters carbon. Studies around the world have shown that desert ecosystems can act as important carbon sinks. For example, the California deserts account for nearly 10 percent of the state's carbon sequestration; below ground in soil and root systems, and above ground in biomass. Protecting this biome can contribute to securing carbon stores in the state (MDLT 2021). Given the current climate change conditions, there is an increasing need for carbon sequestration. Because vascular plants are a primary user of carbon and the proposed Project would result in the loss/degradation of more than a thousand acres of plants and their ability to sequester carbon for decades or longer unless successful measures are implemented to restore the same biomass of native vegetation as it is being destroyed, it is imperative that the proposed Project minimize the loss of vegetation.

The DEIR should consider the monitoring results of recently developed solar projects where soils have been bladed versus those facilities where the vegetation has been mowed or crushed and allowed to revegetate the area. In the latter case, it may be appropriate to allow tortoises to enter the facilities and re-establish residency (i.e., repatriate) under the solar panels as vegetation recolonizes the area. This could be an *option* for the currently described project alternative. It should be designed/implemented as a scientific experiment to add to the limited data on this approach to determine the extent of effects on Mojave desert tortoise populations and movements/connectivity between populations, which is an important issue for this species, particularly over the long-term (see *Desert Tortoise Habitat Linkages/Connectivity among Populations and Recovery Units* below). Long-term monitoring for the life of the project would need to be included to accurately evaluate the effectiveness of this strategy.

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### **Affected Environment**

<u>Status of the Population of the Mojave Desert Tortoise</u>: The Council provides the following information for the proponent so that these or similar data may be included in the DEIR. The Council believes that BLM's failure to implement recovery actions for the Mojave desert tortoise as given in the recovery plan (both USFWS 1994b and 2011) has contributed to tortoise declines between 2004 and 2014 (Table 1; USFWS 2015). There are 17 populations of Mojave desert tortoise described below that occur in Critical Habitat Units (CHUs) and Tortoise Conservation Areas (TCAs); 14 are on lands managed by the BLM; 8 of these are in the California Desert Conservation Area (CDCA).

**Table 1**. Summary of 10-year trend data for 5 Recovery Units and 17 CHUs/TCAs for Mojave desert tortoise. The table includes the area of each Recovery Unit and CHU/TCA, percent of total habitat for each Recovery Unit and CHU/TCA, density (number of breeding adults/km<sup>2</sup> and standard errors = SE), and the percent change in population density between 2004 and 2014. Populations below the viable level of 3.9 breeding individuals/km<sup>2</sup> (10 breeding individuals per mi<sup>2</sup>) (assumes a 1:1 sex ratio) and showing a decline from 2004 to 2014 are in red.

Recovery Unit: Designated Critical Habitat Unit/Tortoise Conservation Area	Surveyed area (km <sup>2</sup> )	% of total habitat area in Recovery Unit & CHU/TCA	2014 density/km <sup>2</sup> (SE)	% 10-year change (2004–2014)
Western Mojave, CA	6,294	24.51	2.8 (1.0)	-50.7 decline
Fremont-Kramer	2,347	9.14	2.6 (1.0)	-50.6 decline
Ord-Rodman	852	3.32	3.6 (1.4)	-56.5 decline
Superior-Cronese	3,094	12.05	2.4 (0.9)	-61.5 decline
Colorado Desert, CA	11,663	45.42	4.0 (1.4)	-36.25 decline
Chocolate Mtn AGR, CA	713	2.78	7.2 (2.8)	-29.77 decline
Chuckwalla, CA	2,818	10.97	3.3 (1.3)	-37.43 decline
Chemehuevi, CA	3,763	14.65	2.8 (1.1)	-64.70 decline
Fenner, CA	1,782	6.94	4.8 (1.9)	-52.86 decline
Joshua Tree, CA	1,152	4.49	3.7 (1.5)	+178.62 increase
Pinto Mtn, CA	508	1.98	2.4 (1.0)	-60.30 decline
Piute Valley, NV	927	3.61	5.3 (2.1)	+162.36 increase
Northeastern Mojave	4,160	16.2	4.5 (1.9)	+325.62 increase
Beaver Dam Slope, NV, UT, AZ	750	2.92	6.2 (2.4)	+370.33 increase
Coyote Spring, NV	960	3.74	4.0 (1.6)	+ 265.06 increase
Gold Butte, NV & AZ	1,607	6.26	2.7 (1.0)	+ 384.37 increase
Mormon Mesa, NV	844	3.29	6.4 (2.5)	+ 217.80 increase
Eastern Mojave, NV & CA	3,446	13.42	<b>1.9 (0.7)</b>	-67.26 decline
El Dorado Valley, NV	999	3.89	1.5 (0.6)	-61.14 decline
Ivanpah Valley, CA	2,447	9.53	2.3 (0.9)	-56.05 decline
Upper Virgin River	115	0.45	15.3 (6.0)	-26.57 decline
Red Cliffs Desert	115	0.45	15.3 (6.0)	-26.57 decline
Range-wide Area of CHUs -	25,678	100.00		-32.18 decline
TCAs/Range-wide Change in				
Population Status				

**Table 2**. Estimated change in abundance of adult Mojave desert tortoises in each recovery unit between 2004 and 2014 (Allison and McLuckie 2018). Decreases in abundance are in red.

Recovery Unit	Modeled	2004	2014	Change in	Percent Change
	Habitat (km <sup>2</sup> )	Abundance	Abundance	Abundance	in Abundance
Western Mojave	23,139	131,540	64,871	-66,668	-51%
Colorado Desert	18,024	103,675	66,097	-37,578	-36%
Northeastern Mojave	10,664	12,610	46,701	34,091	270%
Eastern Mojave	16,061	75,342	24,664	-50,679	-67%
Upper Virgin River	613	13,226	10,010	-3,216	-24%
Total	68,501	336,393	212,343	-124,050	-37%

Important points from these tables include the following:

Change in Status for the Mojave Desert Tortoise Range-wide

• Ten of 17 populations of the Mojave desert tortoise declined from 2004 to 2014.

• Eleven of 17 populations of the Mojave desert tortoise are no longer viable. These 11 populations represent 89.7 percent of the range-wide habitat in CHUs/TCAs.

# Change is Status for the Eastern Mojave Recovery Unit – Nevada and California

• This recovery unit had a 67 percent decline in tortoise density from 2004 to 2014, the largest decline of the five recovery units for the tortoise.

• Tortoises in this recovery unit have densities that are below viability.

# Change in Status for the El Dorado Valley and Ivanpah Valley Tortoise Populations in the Eastern Mojave Recovery Unit.

• Both populations in this recovery unit experienced declines in densities of 61 percent and 56 percent, respectively from 2004 to 2014. In addition, there was a 67 percent decline in tortoise abundance.

• Both populations have densities less than needed for population viability.

# Change in Status for the Mojave Desert Tortoise in California

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• Eight of 10 populations of the Mojave desert tortoise in California declined from 29 to 64 percent from 2004 to 2014 with implementation of tortoise conservation measures in the Northern and Eastern Colorado Desert (NECO), Northern and Eastern Mojave Desert (NEMO), and Western Mojave Desert (WEMO) Plans.

• Eight of 10 populations of the Mojave desert tortoise in California are no longer viable. These eight populations represent 87.45 percent of the habitat in California that is in CHU/TCAs.

• The two viable populations of the Mojave desert tortoise in California are declining. If their rates of decline from 2004 to 2014 continue, these two populations will no longer be viable in about 2020 and 2031.

### Change in Status for the Mojave Desert Tortoise on BLM Land in California

• Eight of eight populations of Mojave desert tortoise on lands managed by the BLM in California declined from 2004 to 2014.

• Seven of eight populations of Mojave desert tortoise on lands managed by the BLM in California are no longer viable.

# Change in Status for Mojave Desert Tortoise Populations in California that Are Moving toward Meeting Recovery Criteria

• The only population of Mojave desert tortoise in California that is not declining is on land managed by the National Park Service, which has increased 178 percent in 10 years.

<u>The Endangered Mojave Desert Tortoise</u>: The Council believes that the Mojave desert tortoise meets the definition of an endangered species. In the FESA, Congress defined an "endangered species" as "any species which is in danger of extinction throughout all or a significant portion of its range..." In the California Endangered Species Act (CESA), the California legislature defined an "endangered species" as a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant, which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes (California Fish and Game Code § 2062). Because most of the populations of the Mojave desert tortoise were non-viable in 2014, most are declining, and the threats to the Mojave desert tortoise are numerous and have not been substantially reduced throughout the species' range, the Council believes the Mojave desert tortoise should be designated as an endangered species by the USFWS and California Department of Fish and Wildlife (CDFW).

Mojave desert tortoise is now on the list of the world's most endangered tortoises and freshwater turtles. It is in the top 50 species. The International Union for Conservation of Nature's (IUCN) Species Survival Commission, Tortoise and Freshwater Turtle Specialist Group, now considers Mojave desert tortoise to be Critically Endangered (Berry et al. 2021), which is a "species that possess an extremely high risk of extinction as a result of rapid population declines of 80 to more than 90 percent over the previous 10 years (or three generations), a current population size of fewer than 50 individuals, or other factors." It is one of three turtle and tortoise species in the United States to be critically endangered.

The summary of data above indicates that BLM's current management actions for the Mojave desert tortoise are inadequate to help recover the desert tortoise. BLM has been ineffective in halting population declines, which has resulted in non-viable populations. The Council believes that these management actions are inadequate in preventing the extirpation of the Mojave desert tortoise in California and Nevada.

### Standardized Surveys - Desert Tortoise and Other Species

For the DEIR to fully analyze the effects and identify potentially significant impacts, the following surveys must be performed to determine the extent of rare plant and animal populations occurring within areas to be directly and indirectly impacted.

C2-8 cont Prior to conducting surveys, a knowledgeable biologist should perform a records search of the California Natural Diversity Data Base (CNDDB; CDFW 2022) for rare plant and animal species reported from the region. The results of the CNDDB review would be reported in the DEIR with an indication of suitable and occupied habitats for all rare species reported from the region based on performing the species-specific surveys described below.

CDFG (2010) lists hundreds of plant communities occurring in California, including those that are considered Communities of Highest Inventory Priority, or "CHIPs." Biologists completing surveys on behalf of the project proponent should document such communities where they occur, and indicate how impacts to them will be minimized.

The project proponent should fund focused surveys for all rare plant and animal species reported from the vicinity of the proposed project. Results of the surveys will determine appropriate permits from CDFW and USFWS and associated avoidance, minimization, and mitigation measures. Focused plant and animal surveys should be conducted by knowledgeable biologists for respective taxa (e.g., rare plant surveys should be performed by botanists), and to assess the likelihood of occurrence for each rare species or resource (e.g., plant community) that has been reported from the immediate region. Focused plant surveys should occur only if there has been sufficient winter rainfall to promote germination of annual plants in the spring. Alternatively, the environmental documents may assess the likelihood of occurrence with a commitment by the proponents to perform subsequent focused plant surveys prior to ground disturbance, assuming conditions are favorable for germination.

<u>Specialized Reptile Surveys</u>: If there are any loose, shifting sands within/near the impact areas of the panels, along the gen-tie lines, or access routes, focused surveys for Mojave fringe-toed lizards (*Uma scoparia*) should be performed (University of California, Riverside 2005, 2007).

<u>Migratory Birds/Eagles</u>: The County should ensure that all actions it authorizes are implemented in compliance with the Migratory Bird Treaty Act, Bald and Golden Eagle Protection Act, and associated regulations, executive orders, and policies (e.g., Driscoll 2010, Pagel et al. 2010) to avoid mortality or injury to migratory birds and harassment of eagles.

<u>Burrowing owl</u>: Surveys for western burrowing owl (*Athene cunicularia*) should be performed implementing available methods (CDFG 2012). In addition to the project footprint, the protocol requires that peripheral transects be surveyed at 30-, 60-, 90-, 120-, and 150-meter intervals in all suitable habitats adjacent to the subject property to determine the potential indirect impacts of the project on this species. If burrowing owl sign is found, CDFG (2012) describes appropriate minimization and mitigation measures that would be required. If burrowing owl sign is found, the County and the project proponent should develop a science-based mitigation/monitoring/adaptive management plan with the USFWS and CDFW and ensure that this plan is implemented.

<u>Mojave Desert Tortoise Surveys</u>: Formal protocol surveys for Mojave desert tortoise (USFWS 2019) must be conducted at the proper times of year. Because USFWS (2009) and CDFW require only experienced biologists to perform protocol surveys, USFWS and CDFW biologists should review surveyors' credentials prior to initiating the surveys. Per this protocol, since the impact area is larger than 500 acres, the surveys must be performed in the time periods of April-May or

September-October so that a statistical estimate of tortoise densities can be determined for the "action area" (please see below). If any tortoise sign is found, the project proponent should coordinate with USFWS and CDFW to determine whether "take" under FESA or CESA is likely to occur from implementation of the proposed project. If tortoises are present, the project proponent must obtain a Section 10(a)(1)(B) incidental take permit from the USFWS for activities on federal lands/actions and a section 2081 incidental take permit from the CDFW prior to conducting any ground disturbance.

We request that protocol-level surveys be performed at the area of the proposed project *and the alternatives that are being considered* in the DEIR. The results of these surveys should be published in the DEIR and should include density estimates for each alternative assessed.

To determine the full extent of impacts to tortoises and to facilitate compliance with the FESA and CESA, authorized biologist(s) must consult with the USFWS to determine the action area for this project. The USFWS defines "action area" the Code of Federal Regulations and their Desert Tortoise Field Manual (USFWS 2009) as "all areas to be affected directly or indirectly by proposed development and not merely the immediate area involved in the action (50 CFR §402.02)."

The Council's persisting concern is that proponents of solar projects continue to identify a single site for development without any attempt to identify alternative sites. As such, when focused studies reveal significant accumulations of tortoises on the proponent's selected site, because there is only one site identified for the project, there is no opportunity to select an alternative site where impacts would be minimized.

Too often, a single impact footprint is identified, all surveys are restricted to that site, and no alternative sites are assessed, as required by NEPA. We are concerned that this project has already pre-determined the project footprint, and, that an undisclosed part of the footprint is designated tortoise critical habitat. As such, there are likely other areas of lower tortoise densities where impacts could be minimized. However, those areas would not be considered if the project footprint is preferably three, be identified and analyzed in the DEIR and that the alternative with the fewest impacts to tortoises be adopted for development.

If that is not feasible, we ask that the "action area" of the proposed project be several times larger than the project footprint so that those portions of the site with fewer tortoises could be selected. Proponents of the Gemini Solar Site in southern Nevada, for example, ignored these recommendations, and displaced more than 100 tortoises, when based on their presence-absence tortoise surveys, a shift of the site to the east would have avoided many of those animals.

It is current management to require desert tortoise protocol surveys (USFWS 2019) on a given site, but all too often translocation sites are ignored. We feel strongly that protocol surveys should occur on multiple or enlarged sites as given above *and* on all proposed translocation sites, assuming tortoises will be translocated.

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#### Mojave Desert Tortoise Impacts Analysis:

Analysis of Direct and Indirect Impacts: The alternatives analysis should include an economic analysis that provides the total cost of constructing the proposed project versus other alternatives, so the public can see how much the total cost of each alternative is. This would include an analysis of the costs of replacing all biological resources that would be lost from granting the proposed project including direct, indirect, and cumulative impacts. Please note, this analysis would include habitat replacement or restoration costs including the time needed to achieve full replacement, not just acquisition, management, monitoring, and adaptive management costs.

The DEIR should include a thorough analysis of the status and trend of the tortoise in the action area, tortoise conservation area(s), recovery unit(s), and range wide. Tied to this analysis should be a discussion of all likely sources of mortality for the tortoise and degradation and loss of habitat from implementation of solar development including construction, operation and maintenance, decommissioning, and restoration of the public lands. The DEIR should use the data from focused plant and wildlife surveys in their analysis of the direct, indirect, and cumulative impacts of the proposed project on the Mojave desert tortoise and its habitat, other listed species, and species of concern/special status species.

We expect that the DEIR will document how many acres would be impacted directly by solar arrays, access roads to the site, administration/maintenance buildings, parking areas, transmission towers, switchyards, laydown areas, internal access roads, access roads along gen-tie lines, a perimeter road, perimeter fencing, substations, battery storage (e.g., the project footprint). We also request that separate calculations document how many acres of desert tortoise habitats would be temporarily and permanently impacted both directly and indirectly (e.g., "road effect zone," etc.) by the proposed Project. As given below, these acreages should be based on field surveys for tortoises and not just on available models.

*Road Effect Zone*: We request that the DEIR include information on the locations, sizes, and arrangements of roads to the proposed project and within it, who will have access to them, whether the access roads will be secured to prevent human access or vandalism, and if so, what methods would be used. The presence/use of roads even with low vehicle use has numerous adverse effects on the desert tortoise and its habitats that have been reported in the scientific literature. These include the deterioration/loss of wildlife habitat, hydrology, geomorphology, and air quality; increased competition and predation (including by humans); and the loss of naturalness or pristine qualities.

Vehicle use on new roads and increased vehicle use on existing roads equates to increased direct mortality and an increased road effect zone for desert tortoises. Road construction, use, and maintenance adversely affect wildlife through numerous mechanisms that can include mortality from vehicle collisions, and loss, fragmentation, and alteration of habitat (Nafus et al. 2013; von Seckendorff Hoff and Marlow 2002).

C2-12

In von Seckendorff Hoff and Marlow (2002), they reported reductions in Mojave desert tortoise numbers and sign from infrequent use of roadways to major highways with heavy use. There was a linear relationship between traffic level and tortoise reduction. For two graded, unpaved roads, the reduction in tortoises and sign was evident 1.1 to 1.4 km (3,620 to 4,608 feet) from the road. Nafus et al. (2013) reported that roads may decrease tortoise populations via several possible mechanisms, including cumulative mortality from vehicle collisions and reduced population growth rates from the loss of larger reproductive animals. Other documented impacts from road construction, use, and maintenance include increases in roadkill of wildlife species as well as tortoises, creating or increasing food subsidies for common ravens, and contributing to increases in raven numbers and predation pressure on the desert tortoise.

Please include in the DEIR analyses, the five major categories of primary road effects to the tortoise and special status species: (1) wildlife mortality from collisions with vehicles; (2) hindrance/barrier to animal movements thereby reducing access to resources and mates; (3) degradation of habitat quality; (4) habitat loss caused by disturbance effects in the wider environment and from the physical occupation of land by the road; and (5) subdividing animal populations into smaller and more vulnerable fractions (Jaeger et al. 2005a, 2005b, Roedenbeck et al. 2007). These analyses should be at the population, recovery unit, and rangewide levels.

In summary, road establishment/increased use is often followed by various indirect impacts such as increased human access causing disturbance of species' behavior, increased predation, spread of invasive species that alters/degrades habitat, and vandalism and/or collection. The analysis of the impacts from road establishment and use should include cumulative effects to the tortoise with respect to nearby critical habitat and other TCAs, areas identified as important linkage habitat for connectivity between nearby critical habitat units/TCAs as these linkage areas serve as corridors for maintaining genetic and demographic connectivity between populations, recovery units, and rangewide (see *Desert Tortoise Habitat Linkages/Connectivity among Populations and Recovery Units* below). These and other indirect impacts to the Mojave desert tortoise should be analyzed in the DEIR from project construction, operations and maintenance, decommissioning, and habitat restoration.

Desert Tortoise Habitat Linkages/Connectivity among Populations and Recovery Units: The DEIR should analyze how this proposed project will impact the movement of tortoises relative to linkage habitats/corridors. The DEIR should include an analysis of the minimum linkage design necessary for conservation and recovery of the desert tortoise (e.g., USFWS 2011, Averill-Murray et al. 2013, Hromada et al. 2020), and how the project, along with other existing projects, would impact the linkages between tortoise populations and all recovery units that are needed for survival and recovery. We strongly request that the environmental consequences section of the DEIR include a thorough analysis of this indirect effect (40 Code of Federal Regulations 1502.16) and appropriate mitigation to maintain the function of population connectivity for the Mojave desert tortoise and other wildlife species be identified. Similarly, please document how this project may impact proximate conservation areas, such as BLM-designated ACECs.

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<u>Jurisdictional Waters in California</u>: A jurisdictional waters analysis should be performed for all potential impacts to washes, streams, and drainages. This analysis should be reviewed by the CDFW as part of the permitting process and a section 1600 Streambed Alteration Agreement acquired, if deemed necessary by CDFW.

# **Mitigation Plans**

The DEIR should include effective mitigation for all direct, indirect, and cumulative effects to the tortoise and its habitats. The mitigation should use the best available science with a commitment to implement the mitigation commensurate to impacts to the tortoise and its habitats. Mitigation should include a fully-developed desert tortoise translocation plan, including protection of tortoise translocation area(s) from future development and human disturbance in perpetuity; raven management plan; non-native plant species management plan; fire prevention plan; compensation plan for the degradation and loss of tortoise habitat that includes protection of the acquired, improved, and restored habitat in perpetuity for the tortoise from future development and human use; and habitat restoration plan when the lease is terminated and the proposed project is decommissioned.

All plans should be provided in the DEIR so the public and the decisionmaker can determine their adequacy (i.e., whether they are scientifically rigorous and would be effective in mitigating for the displacement and loss of tortoises and degradation and loss of tortoise habitat from project implementation). Too often, such plans are alluded to in the draft environmental document and promised later, which does not allow the reviewers to assess their adequacy, which is unacceptable. If not available as appendices in draft documents, all indicated plans must be published in the final environmental documents. Their inclusion is necessary to determine their adequacy for mitigating direct, indirect, and cumulative impacts, and monitoring for effectiveness and adaptive management regarding the desert tortoise. If these plans are not provided, it is not possible for the County, other decisionmakers, and the interested public to determine the environmental consequences of the project to the tortoise.

These mitigation plans should include an implementation schedule that is tied to key actions of the construction, operation, maintenance, decommissioning, and restoration phases of the project so that mitigation occurs concurrently with or in advance of the impacts. The plans should specify success criteria, include an effectiveness monitoring plan to collect data to determine whether success criteria have been met, and identify/implement actions that would be required if the mitigation measures do not meet the success criteria.

<u>Translocation Plan - Translocated Tortoises & Translocation Sites</u>: How many tortoises will be displaced by the proposed project? How long will translocated tortoises be monitored? Will the monitoring report show how many of those tortoises lived and died after translocation and over time? Are there any degraded habitats or barren areas that may impair success of the translocation? Are there incompatible human uses in the new translocation area that need to be eliminated or managed to protect newly-translocated tortoises? Were those translocation areas sufficiently isolated that displaced tortoises were protected by existing or enhanced land management? How will the proponent minimize predation of translocated tortoises and avoid adverse climatic conditions, such as low winter rainfall conditions that may exacerbate translocation success? Were tortoises translocated to a site where they would be protected from threats (e.g., off-highway vehicles, future development, etc.)? These questions and others should be answered in DEIR.

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The project proponent should implement the USFWS' Translocation Guidance (USFWS 2020) and coordinate translocation with CDFW and USFWS. In addition, the proponent's projectspecific translocation plan should be based on current data and developed using lessons learned from earlier translocation efforts (e.g., increased predation, drought). (see *Desert Tortoise Translocation Bibliography Of Peer-Reviewed Publications*<sup>1</sup> in the footnote).

The Translocation Plan should include implementation of a science-based monitoring plan approved by the Desert Tortoise Recovery Office that will accurately access these and other issues to minimize losses of translocated tortoises and impacts to their habitat. For example, the health of tortoises may be jeopardized if they are translocated during drought conditions, which is known to undermine translocation successes (Esque et al. 2010). If drought conditions are present at the time of project development, we request that the proponent confer with the USFWS/CDFW immediately prior to translocating tortoises and seek input on ways to avoid loss of tortoises due to stressors associated with drought. One viable alternative if such adverse conditions exist is to postpone site development until which time conditions are favorable to enhance translocation success.

Moving tortoises from harm's way, the focus of the Translocation Guidance, does not guarantee their survival and persistence at the translocation site, especially if it will be subject to increased human use or development. In addition to the Translocation Guidance and because translocation sites are mitigation for the displacement of tortoises and loss of habitat, these sites should be managed for the benefit of the tortoise in perpetuity. Consequently, a conservation easement or other durable legal designation should be placed on the translocation sites. The project proponent should fully fund management of the site to enhance it for the benefit of the tortoise in perpetuity.

<u>Tortoise Predators and a Predator Management Plan</u>: Common ravens are known predators of the Mojave desert tortoise and their numbers have increased substantially because of human subsidies of food, water, and sites for nesting, roosting, and perching to hunt (Boarman 2003). Coyotes and badgers are also predators of tortoises. Because ravens can fly at least 30 miles in search of food and water daily (Boarman et al. 2006) and coyotes can travel an average of 7.5 miles or more daily (Servin et al. 2003), this analysis should extend out at least 30 miles from the proposed project site.

The DEIR should analyze if this new use would result in an increase in common ravens and other predators of the desert tortoise in the action area. During construction, operations and maintenance, decommissioning, and restoration phases of the proposed project, the County should require science-based management of common raven, coyote, and badger predation on tortoises in the action area. This would include the translocation sites.

For local impacts, the Predator Management Plan should include reducing/eliminating human subsidies of food and water, and for the common raven, sites for nesting, roosting, and perching to address local impacts (footprint of the proposed project). This includes buildings, fences, and other vertical structures associated with the project site. In addition, the Predator Management Plan should include provisions that eliminate the pooling of water on the ground or on roofs. The Predator Management Plan should include science-based monitoring and adaptive management throughout all phases of the project to collect data on the effectiveness of the Plan's implementation and implement changes to reduce/eliminate predation on the tortoise if existing measures are not effective.

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<sup>&</sup>lt;sup>1</sup> <u>https://www.fws.gov/nevada/desert\_tortoise/documents/reports/2017/peer-reviewed\_translocation\_bibliography.pdf</u>

For regional and cumulative impacts, the County should require the project proponent to participate in efforts to address regional and cumulative impacts. For example, the project proponent should be required to contribute to the National Fish and Wildlife Foundation's Raven Management Fund to help mitigation for regional and cumulative impacts. Unfortunately, this Fund that was established in 2010 has not revised its per acre payment fees to reflect increased labor and supply costs during the past decade to provide for effective implementation. The National Fish and Wildlife Foundation should revise the per acre fee.

We request that for any of the transmission options, the project use infrastructure (particularly towers) that prevent raven nesting and perching for hunting. For example, for gen-ties/transmission lines the tubular design pole with a steep-pointed apex and insulators on down-sloping cross arms is preferable to lattice towers, which should not be used. New fencing should not provide resources for ravens, like new perching and nesting sites.

According to Appendix A of Common Raven Predation on the Desert Tortoise (USFWS 2010), "The BLM's biological assessments and the USFWS' biological opinions for the California Desert Conservation Area (CDCA) plan amendments reiterate the need to address the common raven and its potential impacts on desert tortoise populations." Please ensure that all standard measures to mitigate the local, regional, and cumulative impacts of raven predation on the tortoise are included in this DEIR, including developing a raven management plan for this specific project. USFWS (2010) provides a template for a project-specific management plan for common ravens. This template includes sections on construction, operation, maintenance, and decommissioning (including restoration) with monitoring and adaptive management during each project phase (USFWS 2010).

<u>Fire Prevention/Management Plans</u>: The proposed project could include numerous infrastructure components that have been known to cause fires. Lithium-ion batteries at the project site have the potential to explode and cause fires and are not compatible with using water for fighting fires. Photovoltaic panel malfunctions have caused vegetation to burn onsite. We request that the DEIR include a Fire Prevention Plan in addition to a Fire Management Plan specifically targeting methods to deal with explosions/fires produced by these batteries/panels as well as other sources of fuel and explosives on the project site.

<u>Habitat Compensation Plan</u>: When the project proponent seeks an incidental take permit from the CDFW, because their project would result in take of a listed species under CESA, compensatory mitigation would be required. The mitigation lands must be occupied by the species and secured and managed in perpetuity for the listed species. Hence, the DEIR should include a Habitat Compensation Plan for the loss/degradation of habitat. This plan should calculate how it will fully mitigate for the impacts of the proposed project including direct, indirect, cumulative, and temporal impacts.]

# **Climate Change and Non-native Plants**

<u>Climate Change</u>: We request that the DEIR address the effects of the proposed action on climate change warming and the effects that climate change may have on the proposed action. For the latter, we recommend including: an analysis of habitats within the project area that may provide

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refugia for tortoise populations; an analysis of how the proposed action would contribute to the spread and proliferation of nonnative invasive plant species; how this spread/proliferation would affect the desert tortoise and its habitats (including the frequency and size of human-caused fires); and how the proposed action may affect the likelihood of human-caused fires. We strongly urge that the County require the project proponent to develop and implement a management and monitoring plan using this analysis and other relevant data that would reduce the transport to and spread of nonnative seeds and other plant propagules within the project area and eliminate/reduce the likelihood of human-caused fires. The plan should integrate vegetation management with fire prevention and fire response.

<u>Impacts from Proliferation of Nonnative Plant Species and Management Plan</u>: The DEIR should include an analysis of how the proposed project would contribute to the spread and proliferation of non-native invasive plant species; how this spread/proliferation would affect the desert tortoise and its habitats (including the frequency and size of human-caused fires); and how the proposed project may affect the frequency, intensity, and size of human-caused and naturally occurring fires. For reasons given in the previous paragraph, we strongly urge that the County require the project proponent to develop and implement a management and monitoring plan for nonnative plant species. The plan should integrate management/enhancement of native vegetation with fire prevention and fire response to wildfires.

# Hydrology and Water Quality

Regarding water quality of surface and ground water, the DEIR should include an analysis of the impacts of water acquisition, use, and discharge for panel washing, potable uses, and any other uses associated with this proposed project, and cumulative impacts from water use and discharge on native perennial shrubs and annual vegetation used for forage by the Mojave desert tortoise, including downstream and downstream impacts. The DEIR should analyze how much water is proposed to be used during construction and operation; how any grading, placement, and/or use of any project facilities will impact downstream/downslope flows that are reduced, altered, eliminated, or enhanced. This analysis should include impacts to native and non-native vegetation and habitats for wildlife species including the Mojave desert tortoise, for which washes are of particular importance for feeding, shelter, and movements.

Therefore, we request that the DEIR include an analysis of how water use during construction, operations and maintenance, decommissioning, and habitat restoration will impact the levels of ground water in the region. These levels may then impact surface and near-surface flows at springs, seeps, wetlands, pools, and groundwater-dependent vegetation in the basin. The analyses of water quality and quantity of surface and ground water should include appropriate measures to ensure that these impacts are fully mitigated, preferably beginning with avoidance and continuing through CEQ's other forms of mitigation (40 CFR 1508.20).

# **Cumulative Effects**

With regards to cumulative effects, the DEIR should list and analyze all project impacts within the region including future state, federal, and private actions affecting listed species on state, federal, and private lands. The Council asks that the relationship between this proposed project and the DRECP (BLM 2015) be analyzed, as the project area does not appear to be in a designated

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Development Focused Area (DFA) identified in the final Record of Decision by the BLM for the DRECP (BLM 2016). We also expect that the environmental documents will provide a detailed analysis of the "heat sink" effects of solar development on adjacent desert areas and particularly Mojave desert tortoise in addition to climate change.

We appreciate this opportunity to provide scoping comments on this project and trust they will help protect tortoises during any resulting authorized activities. Herein, we reiterate that the Desert Tortoise Council wants to be identified as an Affected Interest for this and all other projects funded, authorized, or carried out by the County that may affect species of desert tortoises, and that any subsequent environmental documentation for this project is provided to us at the contact information listed above. Additionally, we ask that you respond in an email that you have received this comment letter so we can be sure our concerns have been registered with the appropriate personnel and office for this project.

# Respectfully,

Edward L. LaRue, Jr., M.S. Desert Tortoise Council, Ecosystems Advisory Committee, Chairperson

# **Literature Cited**

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### Appendix B

Confidential Appendix Provided Only to the Colorado River Indian Tribes and the County of San Bernardino Decision Makers

## Kimley »Horn

### **EXHIBIT C**

## California Environmental Quality Act Facts and Findings

#### Facts and Findings Regarding the Vidal Energy Project

(State Clearinghouse No. 2022030713)

The San Bernardino County Review Authority (the "<u>Review Authority</u>"), in certifying the Environmental Impact Report (the "<u>EIR</u>") for the Vidal Energy Project (Project) finds, determines, and declares that having received, reviewed, and considered the following information as well as all other information in the record of proceedings in this matter, the following:

### Section 1. Introduction

Pursuant to the California Environmental Quality Act ("<u>CEQA</u>"), Public Resources Code [PRC] Section 21000 *et seq.*, the potential environmental effects of the proposed Vidal Energy Project (the "<u>Project</u>") have been analyzed in a Draft Environmental Impact Report (the "<u>Draft EIR</u>") (State Clearinghouse No. 2022030713). In accordance with California Code of Regulations, Title 14, Section 15121 (the "<u>CEQA Guidelines</u>"), the Draft EIR identifies the significant environmental effects associated with development of the Project and ways to minimize the significant environmental effects through mitigation measures or reasonable alternatives to the Project. A Final Environmental Impact Report (the "<u>Final EIR</u>," and collectively with the Draft EIR, the "<u>EIR</u>") has also been prepared that consists of the Draft EIR and technical appendices; a list of persons, organizations, and public agencies commenting on the Draft EIR; comments received on the Draft EIR and written responses to comments raising significant environmental issues; and clarifications and corrections to the Draft EIR.

#### 1.1 Statutory Requirements for Findings

PRC Section 21081 and the CEQA Guidelines Section 15091 provide that no public agency shall approve or carry out a project for which an EIR has been certified that identifies one or more significant effects of the project on the environment, unless the public agency makes one or more written findings for each significant effect, accompanied by a brief explanation of the rationale of each finding. The possible findings, which must be supported by substantial evidence in the record, are:

- 1. Changes or alterations have been required in, or incorporated into, the project which avoid or substantially lessen the significant environmental effect as identified in the Final EIR.
- 2. Such changes or alterations are within the responsibility and jurisdiction of another public agency and not the agency making the finding. Such changes have been adopted by such other agency or can and should be adopted by such other agency.
- 3. Specific economic, legal, social, technological, or other considerations, including provision of employment opportunities for highly trained workers, make infeasible the mitigation measures or project alternatives identified in the Final EIR.

The Draft EIR discloses potential environmental impacts that may result from construction and operation of the Project, including an analysis of Project alternatives, including the No Project Alternative. The Draft EIR discloses that prior to mitigation, Project implementation would result in potentially significant impacts to Air Quality, Biological Resources, Cultural Resources (Archaeological Resources), Geology and Soils

(Paleontological Resources), and Tribal Cultural Resources. Mitigation measures have been developed that reduced potentially significant impacts to less-than-significant levels. Concurrent with adoption of the Findings, the County will also adopt the Mitigation Monitoring and Reporting Program (the "<u>MMRP</u>").

As the Lead Agency for the Project, the County of San Bernardino (the "<u>County</u>") has made specific written findings regarding each significant impact associated with the Project (the "<u>Findings</u>"). This document is organized as follows:

- Section 1, *Introduction*, provides a brief overview of the Findings.
- Section 2, *Procedural Compliance with CEQA*, describes the EIR preparation process and the procedural steps that have been followed to comply with CEQA, including public meetings, public comment periods, noticing of the Draft and Final EIRs, and the location where these documents were available for review.
- Section 3, *Description of the Project*, provides a description of the Project, including the location, setting and history, objectives, and physical characteristics.
- Section 4, *Findings Required under CEQA*, provides the necessary Findings to be made for Project-related impacts, including Findings of No Impact or Less-than-Significant Impact Without Mitigation (Section 4.1) and Environmental Impacts Mitigated to a Level of Less-Than-Significant (Section 4.2).
- Section 5, *Other CEQA Considerations*, provides the Findings regarding growth-inducing impacts of the project and significant and irreversible environmental changes.
- Section 6, *Evaluation of Alternatives*, provides the necessary Findings to be made for the different Project alternatives, including a comparison with the Project and reasons for rejecting the alternatives.
- Section 7, *Findings Regarding the Final EIR*, provides a determination regarding the Final EIR.
- Section 8, *Findings Regarding the Mitigation Monitoring and Reporting Program*, provides the Findings regarding the MMRP.

The Findings set forth in each section are supported by substantial evidence in the record of the approval of the Project.

#### 1.2 Certification Required under CEQA Guidelines Section 15090

The Review Authority has received, reviewed, and considered the information contained in the Final EIR, in addition to all public testimony received on the Project and the recommendations of County staff. The Final EIR was prepared under the direction of the San Bernardino County Land Use Services Department and reflects the County's independent judgment and analysis of the environmental impacts and comments received on the Draft EIR.

The Review Authority hereby adopts these Findings pursuant to and in accordance with CEQA Guidelines Section 21081 and CEQA Guidelines Section 15091 and, in compliance with CEQA Guidelines Section 15090, hereby certifies that:

8. The Final EIR has been completed in compliance with CEQA;

- 9. The Final EIR was presented to the Review Authority as the decision-making body of the County and that the decision-making body reviewed and considered the information contained in the Final EIR prior to approving the project; and
- 10. The Final EIR reflects the County's independent judgment and analysis.

#### 1.3 Project EIR and Discretionary Actions

The Final EIR for the Project was prepared as a project EIR, which is the most common type of EIR and examines the environmental impacts of a specific development project. Pursuant to CEQA Guideline Section 15161, "This type of EIR should focus primarily on the changes in the environment that would result from the development project. The EIR shall examine all phases of the project including planning, construction, and operation."

The Final EIR addresses potential direct, indirect, and cumulative environmental effects of construction, operation, and decommissioning activities associated with the Project and all alternatives evaluated in the Final EIR. The Final EIR provides the environmental information necessary for the County to make a final decision on the Project. The Final EIR is also intended to support discretionary reviews and decisions by other agencies, as shown below. Discretionary actions to be considered by the County may include, but are not limited to, the following:

- 1. Conditional Use Permit;
- 2. Parcel Merger; and
- 3. Environmental Impact Report Certification.

### Section 2. Procedural Compliance with CEQA

As authorized in CEQA Guidelines Section 15084(d)(2), the County retained a consultant to assist with the preparation of the environmental documents. The County, acting as Lead Agency, has directed, reviewed, and edited, as necessary, all materials prepared by the consultant, and such materials, including the Final EIR and supporting technical reports, reflect the County's independent judgment.

The key milestones associated with preparation of the EIR are summarized in Section 2.1, *Public Review and Outreach*, below, including public meetings, public comment periods, and the public involvement and agency notification efforts that were conducted to solicit input on the scope and content of the EIR and to solicit comment on the results of the environmental analysis presented in the Draft EIR.

#### 2.1 Public Review and Outreach

The County has conducted an extensive review of this Project which included the Draft EIR, Final EIR and supporting technical studies, along with a public review and comment period first during the circulation of the Notice of Preparation (NOP) and then through the circulation of the Draft EIR. In addition, the County has solicited input from the public and various State, regional, County, and local government agencies and other interested parties on the Project throughout the process. The following is a summary of the environmental review of this Project:

1. On March 29, 2022, the County circulated a NOP that identified environmental issues that the County anticipated would be analyzed in the Project's Draft EIR to the State Clearinghouse;

responsible and trustee agencies; State, regional, County, and local agencies; Native American Tribes; and the public.

- 2. The NOP public review period ran for 30 days, from March 29, 2022, to April 27, 2022. A virtual scoping meeting was held to discuss the Project on April 12, 2022, between 6:00 P.M. and 8:00 P.M. via Zoom. A presentation was provided, including an overview of the Project and the CEQA process. Following the presentation, participants were encouraged to provide oral or written comments to aid the County in refining the scope of issues to be addressed in the Draft EIR. No individuals from the public attended the scoping meeting. One comment letter was received during the public review period from the Colorado River Indian Tribes. Three comment letters were received after the public review period from the Desert Tortoise Council, Morongo Band of Mission Indians, and the California Department of Fish and Wildlife (Region 6).
- 3. In accordance with CEQA Guidelines Section 15085, upon completion of the Draft EIR and publication on December 9, 2022, the County, serving as the Lead Agency: (1) prepared and transmitted a Notice of Completion (NOC) to the State Clearinghouse; (2) published a Notice of Availability (NOA) of a Draft EIR which indicated that the Draft EIR was available for public review at the County's Planning Division Counter; (3) provided a copy of the NOA and Draft EIR to the Jerry Lewis High Desert Government Center; (4) posted the NOA and the Draft EIR on the County's Planning Division website: http://lus.sbcounty.gov/planninghome/environmnetal/desert-region/; (5) sent a NOA to all property owners within 1,300 feet of the Project Site boundary; (6) sent a NOA to the last known name and address of all organizations and individuals who previously requested such notice in writing or attended public meetings about the Project; and (7) filed the NOA with the County Clerk.
- 4. In compliance with CEQA Guidelines Section 15105(a), the Draft EIR was circulated for a 46-day public review period between December 9, 2022, and January 23, 2023.
- 5. The County received four comment letters on the Draft EIR through written correspondence during the public review period.

#### 2.2 Final EIR and County Proceedings

Pursuant to CEQA Guidelines Section 15088, the County reviewed all comments received during the Draft EIR review period and provided a written response to each comment in the Final EIR. The Final EIR dated December 11, 2023, consists of the following documents:

- Draft EIR and Technical Appendices dated December 9, 2022
- Final EIR dated December 11, 2023 which includes:
  - A list of persons, organizations, and public agencies that commented on the Draft EIR;
  - Comments on the Draft EIR and written responses to comments;
  - Corrections and additions to the Draft EIR;
  - Confidential appendix to be provided to the Colorado River Indian Tribes and San Bernardino County Review Authority; and

 Other information beyond the scope of CEQA provided by the County for context and information to the decision makers, agencies and the public.

The Final EIR document was posted for viewing and download with the previously posted Draft EIR prior to the County's consideration of the Final EIR and Project recommendations at http://lus.sbcounty.gov/planning-home/environmnetal/desert-region/. In addition, a hard copy can be viewed at the County's Planning Division Counter and the Jerry Lewis High Desert Government Center. In addition, pursuant to CEQA Guidelines Section 15088(b), the County has prepared responses to the written comment letters on the Draft EIR and provided responses to the CDFW at least 10 days prior to certification of the Final EIR. All commenters, as requested, on the Draft EIR were notified of completion of the Final EIR.

#### 2.3 Record of Proceedings and Custody of Documents

For purposes of CEQA and these Findings, the Administrative Record of Proceedings for the Project includes, without limitation, the following documents:

- NOP and NOA for the Draft EIR, and all other public notices issued by the County in conjunction with the Project;
- All written comments received during the Draft EIR public review comment period;
- All responses to written comments received during the Draft EIR public review comment period;
- The Final EIR for the Project, including the MMRP;
- Matters of common knowledge to the County, including, but not limited to, federal, State, and local laws and regulations;
- Any documents expressly cited in these Findings or the Final EIR; and
- Any other relevant materials required to be in the record of proceedings by PRC Section 21167.6(e).

The documents and other materials that constitute the record of proceedings on which the Project Findings are based are located at the County Land Use Services Department in the San Bernardino Government Center located at 385 N. Arrowhead Avenue, First Floor, San Bernardino, CA 92415. The custodian for these documents is the Project's Planner, Jim Morrissey. This information is provided in compliance with PRC Section 21081.6(a)(2) and CEQA Guidelines Section 15091(e).

### Section 3. Description of the Project

This section provides the Project location, setting and history, Project objectives and a description of the Project characteristics. This section summarizes information contained in the Draft EIR Chapter 2, *Project Description*.

#### 3.1 Project Location

The Project Site is located approximately 2.5 miles southeast of Vidal, which is an unincorporated area of the County that is located east of U.S. Route 95, north of the Riverside County border, and west of the Colorado River. The Project Site encompasses 1,090 acres within 21 parcels (in their entirety and portions of) that are held under lease agreement by CDH Vidal LLC (CORE) (Applicant).

The Project Site is located within the East Desert Communities planning area of the County. The County's Zoning Map identifies the zoning of the Project site as Resource Conservation (RC). The RC land use zoning district provides sites for recreational activities, including: Campgrounds, recreational vehicle parks, and equestrian facilities; single-family homes at a density of one per 40 acres; electric power generation facilities; transportation facilities; government offices and hospitals; and other similar and compatible uses. Renewable energy generation facilities are an allowed land use within the RC land use zoning district. The Countywide Plan designates the Project Site as Resource Land Management (RLM). In addition to the previous list, uses permitted within the RLM designation include mineral extraction, natural resource conservation areas, military facilities, lands under control of the State and federal government, and tribal entities. Solar generation facilities are allowed under the RLM/RC land use designation and zoning district with a Conditional Use Permit. Existing development in the area includes rural access roads and scattered rural residences. Current land uses within the Project Site include scattered structures associated with an abandoned rural residence, garage (storage) areas, and several Western Area Power Administration (WAPA) towers.

#### 3.2 Project Objectives

CORE has defined the following objectives for the Project:

- Utilize property within the County to site PV solar power-generating facilities and energy storage near existing utility infrastructure.
- Support California's efforts to reduce greenhouse gas (GHG) emissions consistent with the timeline established by the California Global Warming Solutions Act under California Assembly Bill 32, as amended by Senate Bill 32, which requires that Statewide GHG emissions are reduced to at least 40 percent below the Statewide GHG emissions limit by 2030.
- Support California's aggressive Renewables Portfolio Standard (RPS) Program consistent with the timeline established by Senate Bill 100, which requires that by December 31, 2030, 60 percent of all electricity sold in the State shall be generated from renewable energy sources.
- Develop an economically feasible and commercially financeable power-generating facility and energy storage system.
- Provide solar-generated electricity to the California Independent System Operator (CAISO) grid and WAPA.
- Promote the County's role as the State's leading producer of renewable energy.
- Provide green jobs to the County and the State of California.
- Site and design the Project in an environmentally responsible manner consistent with current County guidelines.

#### 3.3 Project Description

The Applicant plans to construct and operate the Vidal Energy Project (Project), a solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility to generate renewable energy in Vidal, San Bernardino County (County). The Project will provide 160 megawatts (MW) of alternating current (MW-AC) of solar power and include up to 640 megawatt hours (MWh) of energy storage capacity rate in a BESS on approximately 1,090 acres of land (Project Site). The Project would be supported by the existing, adjacent Western Area Power Administration (WAPA) 161-kilovolt (kV) overhead transmission corridor. The Project would include the construction of one on-site substation facility that would collect and convert the power

generated on-site for transmission via an overhead or underground line to the WAPA transmission system and interconnection location. Upgrades associated with WAPA interconnection include replacement of existing fiber optic cable along the 52-mile Headgate Rock-Blythe 161 kV transmission line. The Project's permanent facilities would include PV panels, BESS, fencing, service roads, a power collection system, communication cables, overhead and underground transmission lines, electrical switchyards, a Project substation, and operations and maintenance (O&M) facilities.

### Section 4. Findings Required under CEQA

The following sections (Sections 4.1 and 4.2) set forth the County's findings from the EIR's determinations regarding significant environmental impacts and the mitigation measures proposed to address the significant impacts associated with the Project. Although PRC Section 21081 and CEQA Guidelines Section 15091 require findings only to address significant environmental effects, in practice findings often address impacts that were found to be less than significant and, therefore, these Findings will account for all effects identified in the EIR.

These Findings provide the written analysis and conclusions of the Review Authority regarding the environmental impacts of the Project, the mitigation measures included as part of the Final EIR and adopted by the Review Authority as part of the Project, and the alternatives that have been rejected as infeasible. These Findings refer to the analysis contained within the EIR to avoid duplication and redundancy. Because the Review Authority agrees with, and hereby adopts, the conclusions in the Final EIR, which includes the analysis provided in the Draft EIR, these Findings will not repeat the analysis and conclusions in the Final EIR, but instead incorporates them by reference in these Findings and relies upon them as substantial evidence supporting these Findings.

In preparing the Approvals for this Project, County staff incorporated the mitigation measures recommended in the EIR as applicable to the Project. In the event that the Approvals do not use the exact wording of the mitigation measures recommended in the EIR, in each such instance, the adopted Approvals are intended to be identical or substantially similar to the recommended mitigation measure. Any minor revisions were made for the purpose of improving clarity or to better define the intended purpose.

All mitigation measures recommended by the EIR will be adopted in the MMRP. In addition, unless specifically stated to the contrary in these Findings, all Approvals repeating, or rewording mitigation measures recommended in the EIR are intended to be substantially similar to the mitigation measures recommended in the EIR and are found to be equally effective in avoiding or lessening the identified environmental impact. In each instance, the Approvals contain the final wording for the mitigation measures.

#### 4.1 Findings of No Impact or Less-than-Significant Impact Without Mitigation

The County determined the Project would result in no impact or less-than-significant impact without mitigation on the following resources areas. In accordance with CEQA Guidelines Section 15128, these issues were not discussed in detail in the Draft EIR (refer to Draft EIR Section 6.5, *Effects Found Not to Be Significant*, for more detail).

**Agriculture and Forestry Resources.** The Project Site is a vacant desert land with scattered residences nearby. According to the Department of Conservation's Williamson Act Contract Land Map, no farmland is enrolled in a Williamson Act contract within the Project Site. The closest land enrolled in a Williamson Act Contract is approximately 20 miles south of the Project Site. The Project Site is zoned RC, which does permit agricultural

uses. Additionally, the Project is compatible with the current zoning designation of RC, upon approval of a CUP. As mentioned above, the Project Site is currently vacant land and does not include forest land and has not been zoned for forest land or timberland uses. The Project would not result in the loss of forest land or conversion of forest land to non- forest use. Therefore, the Project would not conflict with the existing/future zoning for, or cause rezoning of, forest land, timberland, or timberland zoned Timberland Production. No impact would occur.

**Energy.** The Project would increase the demand for electricity and gasoline at the Project Site during construction, but usage would be minimal during Project operations. The energy needs for the Project construction would be temporary and are not anticipated to require additional capacity or increase peak or base period demands for electricity or other forms of energy. Construction equipment use and associated energy consumptions would be typical for that associated with the construction projects of this size. The Project does not include any permanent components that would significantly increase demand for existing sources of energy with the exception of gasoline usage for bimonthly maintenance visits totaling up to six to eight times per year, and operations of security lighting on site. The Project development of a solar energy and battery storage facility would provide a new secure and reliable electricity supply, improve community infrastructure, and support sustainable electricity generation. By building the Project, a clean, reliable resource would be gained to help integrate renewable energy sources, reduce dependence on gas-fired generation, eliminate ocean water for cooling, reduce freshwater consumption, and reduce GHG emissions and criteria air pollutant emissions. Impacts to energy resources would be less than significant.

Hydrology and Water Quality. Maintenance of the Project would include cleaning, inspections, drive motor repair, tracker repair, electrical connection repair, and panel replacement. Cleaning of the solar panels is expected to be conducted up to two times per year, and water used would not contain any cleaning agents or other additives. Maintenance of the proposed on-site substation would involve substation and line inspections, electrical connection repair, and communications repair. No on-site O&M buildings are proposed, and all facilities would be unmanned. Therefore, the Project would not violate any water quality standards or waste discharge requirements. Water demand during construction is estimated at a total of 10 to 15 acre-feet, which would be trucked in or obtained from a local purveyor. Regardless of source, most (89 percent) of the ground surface within the Project area would be permeable, and operational water use would be small, estimated at approximately 1 acre-foot per year or less. The small amount of water to be used and the large amount of permeable surface within the Project Site would not deplete groundwater supplies or interfere substantially with groundwater recharge such that a net deficit in aquifer volume or a lowering of the local groundwater table level would result. As previously mentioned, the Project would not result in substantial erosion or siltation, as Best Management Practices (BMPs) would be implemented during construction in compliance with the Stormwater Pollution Prevention Plan (SWPPP) and the General Construction Permit issued for the Project, which would ensure that erosion and siltation do not result in any off-site water quality impacts. The Project is not located within a special flood hazard area and is designated as Zone D, which is designated for areas where there are possible but undetermined flood hazards. The Project Site is not located within a dam inundation zone and is located approximately 200 miles east of the Pacific Ocean and therefore is not at risk of tsunami. The Project would not conflict with or obstruct implementation of the County's Desert Groundwater Management Ordinance or a future water quality control plan or sustainable groundwater management plan and would not conflict with the 2015 Mojave Water Agency Urban Water Management Plan. Impacts would be less than significant.

Land Use and Planning. The Project Site is located in an unincorporated part of the County that has sparse residential development in the immediate area. The Project Site is primarily bordered by undeveloped land. Therefore, the Project would not divide an established community. No impact would occur, and further analysis is not warranted. The Project would not conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the Project adopted for the purpose of avoiding or mitigating an environmental effect. The current land use designation for the Project Site is RLM and zoned RC, which allows development of electrical power generation facilities with a CUP. The Project would be required to comply with all CUP conditions of approval. Because the Project would be consistent with the existing land uses, impacts would be less than significant.

**Mineral Resources.** According to maps produced by the California Department of Conservation (DOC), the Project Site is classified as Mineral Resource Zone (MRZ) 4, which defines areas where geologic information does not rule out either the presence or absence of mineral resources. No mines are in close proximity to the Project Site. According to the San Bernardino Countywide Plan EIR, the Project Site is not located within MRZ 2 or 3, which are areas identified and have the potential to have significant resources. Additionally, the Project does not involve extensive grading or excavation that would preclude the extraction of any potential mineral resources in the future. According to the DOC Well Finder, there are no oil or gas wells located within the Project Site. No impact would occur.

**Population and Housing.** The Project would develop a utility-scale solar and energy storage facility and would not include a residential component that would cause permanent or temporary population increases. The Project would not displace housing or residents. Because of the presence of locally available workers, and because of the relatively short duration of construction (approximately 14 months), workers are not expected to relocate to the area with their families. No existing housing is present on the Project Site. As a result, the Project would not: (1) result in a population increase that would result in people in the area being displaced or requiring additional housing; or (2) displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere. Impacts would be less than significant.

Public Services. The Project would not result in development that would generate new population in the area which would potentially increase demand for fire or police protection, as no residential uses are proposed. During construction, some fire or police protection may be required but these increases in the level of service would not affect these agencies' response times because of the low probability and shortterm nature of potential fire or police protection needs during construction. The Project would be designed and constructed in conformance with San Bernardino County Fire Protection District (SBCFPD) Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code. Implementation of the Project would not directly cause an increase in residential population or a substantial increase in workforce population that would require new or expanded schools or parks or recreational facilities or other public facilities (e.g., libraries); and during the approximately 14-month construction period, workers are not anticipated to temporarily relocate their families to the area and enroll their children in area schools or require parks or recreational facilities or other public facilities (e.g., libraries). Further, the Project would be subject to the Public Safety Services Impact Fee of the County's Development Code Section 84.29.040(c)) to ensure that the Project would not affect fire performance objectives. As a result, the Project would not result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times

or other performance objectives for public services including fire protection, police protection, schools, parks, recreational facilities, or other public services (e.g., libraries).

**Recreation.** The Project involves construction of a solar energy facility in a highly rural area of the County. No parks are in the vicinity, and the closest recreational facility is the Big River RV Park approximately five miles northeast of the Project Site. The Project does not propose any residential uses that may increase the use of existing neighborhood and regional parks or other recreational facilities in the vicinity. The Project would include additional employment during construction. However, the employees would only be present during the construction phase. The Project Site would be unmanned and would only require minimum staff for inspection and maintenance on a monthly or bimonthly basis. Employees would be traveling from an existing area to the Project and therefore, would not require expansion of the RV Park or other nearby recreation areas. As a result, the Project would not substantially increase the use of local or regional recreational parks or facilities such that substantial physical deterioration would be accelerated.

Utilities and Service Systems – Wastewater, Electric Power, Natural Gas, Telecommunications, and Solid Waste. The Project does not require construction or expansion of wastewater treatment facilities as minimal wastewater would be produced during panel washing. No natural gas or telecommunications facilities would be required. According to the U.S. Energy Mapping System, two electric transmission lines and a substation are within the 10-mile radius from the Project Site. One transmission line crosses the eastern portion of the Project Site, while the other transmission line is approximately 2 miles northwest from the Project Site (Azusa Light and Power). The Big River Substation is located approximately 4 miles northeast from the Project Site. The Project would tie in with the existing WAPA transmission line and would generate more electricity that what would be used. The Project would not interfere with or affect the northwestern transmission line or Big River Substation. The Project Site would be unmanned, the Project would not require restroom facilities that would result in an increased demand for water supplies. Therefore, the Project would have sufficient water supplies available to serve the Project. No restroom or septic facilities would be required. Minimal wastewater would be produced as a result of the panel washing for Project maintenance. Construction of the Project would result in the generation of various waste materials including soil, vegetation, and sanitation waste resulting from portable toilets. Soil excavated for the Project Site would either be used as fill or disposed of off site at an appropriately licensed waste facility. Sanitation waste (i.e., human-generated waste) would be disposed of according to sanitation waste management practices. In order to satisfy California's green building standards, the 2019 CALGreen Code, the Project would submit a Construction Waste Management Plan (CWMP) to the County with the submission of the building permit. Part 1 of the CWMP would estimate the tonnage to be disposed and diverted during construction and plan where the materials would end up before the Project begins. Part 2 would show the actual tonnage amount of the waste materials generated from the Project through receipts from recycling facilities, landfills, or a reuse certification. In addition, the plan would include methods to meet Assembly Bill (AB) 341's 75 percent recycling goal for the State of California to reduce GHG emissions. During operations, the Project would be unmanned and is expected to generate minimal solid waste that would be sent to a publicly owned permitted landfill/disposal site. Existing permitted solid waste capacity in the County is sufficient should future needs for solid waste disposal ever arise. The Project would not impair the attainment of solid waste reduction goals as minimal solid waste is currently expected. The Project would deposit all solid waste at a permitted solid waste facility and, therefore, would comply with federal, State, and local statutes and regulations related to solid waste. Impacts would be less than significant.

Wildfire. According to Fire Hazards Severity Zone (FHSZ) maps produced by CALFIRE, the Project Site is not located within an area prone to wildfire. The County Emergency Operations Plan identifies wildfire risks and provides direction for wildfire mitigation efforts in the planning area. The Project would not prevent the execution of these mitigation efforts, and the Project would be designed to conform with State law and local regulations and in coordination with the SBCFPD. The Project would comply with emergency access requirements, per Section 503 of the SBCFPD Fire Code, including turning radius and maneuverability for large emergency vehicles such as fire trucks and ambulances. Fire access roads would meet the requirements as stated by the Fire District. Further, the Project would be subject to the Public Safety Services Impact Fee of the County's Solar Ordinance (Development Code Section 84.29.040(c)) to ensure that the Project would not affect fire performance objectives. Equipment onsite such as transformers, capacitors, electric transmission lines, substations, vehicles, and gas- or electric-powered small hand tools may be potential sources of ignition during construction, operation, and maintenance. The Project Site does not contain any steep slopes and contour lines. The Project Site generally slopes downward toward the southeast, with elevations at or around approximately 500 feet above mean sea level. The County however experiences Santa Ana winds, which can pose a fire hazard. Additionally, equipment on-site such as transformers, capacitors, electric transmission lines, substations, vehicles, and gas- or electric-powered small hand tools may be potential sources of ignition during construction, operation, and maintenance. Nonetheless, the Project will be required to comply with the SBCFPD Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code. These regulations implement state-of-the-art development and performance standards that ensure the safe installation, operations, and maintenance of utility scale BESS. The Project would also implement fire and safety features at the Module Level, BESS Container Level, Site Level, and Operational Level. Compliance with the SBCFPD Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code, as well as inclusion of the Project's fire and safety features, would not impair the execution of an adopted emergency response plan or emergency evacuation plan. Impacts would be less than significant.

The analysis in the Draft EIR focused on the environmental resource areas that could potentially be affected by implementation of the Project. The Draft EIR, therefore, contains a comprehensive analysis with supporting technical studies for the following environmental issues:

- Aesthetics
- Air Quality
- Biological Resources
- Cultural Resources
- Geology and Soils (including Paleontological Resources)
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Noise
- Transportation
- Tribal Cultural Resources

Under CEQA Guidelines Section 15126.4(a)(3), no mitigation measures are required for impacts that are less than significant. Based on substantial evidence in the entire record of this proceeding, the County finds that implementation of the Project will not result in any significant impacts in the following areas and that these impacts, therefore, do not require mitigation. These Findings do not repeat the analysis and conclusions in the EIR, but instead incorporate this information by reference and as substantial evidence supporting these Findings.

### A. Aesthetics

### Impact 4.1-(a): The Project would not have a substantial adverse effect on a scenic vista. (No Impact.) (Draft EIR pgs. 6-3 to 6-4)

The County is divided into Mountain Region, Valley Region, and Desert Region according to the Countywide Plan/Policy Plan. The Project Site is within the Desert Region of the County. While there are scenic vistas in the Desert Region, including views across desert landscapes, toward mountains, ridgelines, and rock formations, no designated scenic views, scenic vistas, or scenic resources are known to occur in the vicinity of the Project. The Project Site has views of mountain foothills to the southeast. However, the solar equipment proposed to be constructed on the Project Site is low in profile, including PV modules mounted on fixed-tilt foundations or tracker units and associated electrical equipment that would display a height of approximately 12 feet. The Project would also include overhead collection lines, access roads, and a 6-foot chain-link perimeter fence. Although the Project would alter the existing character of the Project Site, the introduction of Project components would not substantially obstruct or interrupt views of the surrounding mountains which would remain visually prominent. Less than significant impacts on scenic vistas are expected to occur.

## Impact 4.1-(b): The Project would not substantially damage scenic resources, including, but not limited to trees, rock outcroppings, and historic buildings within a State scenic highway. (Less than Significant Impact.) (Draft EIR pg. 6-4)

The Project Site is generally flat and contains no significant geologic features or vegetation unique to the area that could be considered scenic. Elements of the Project would be visible for motorists traveling along U.S.

Route 95, including solar racks, perimeter fencing, access roads, and overhead collection lines. However, this route is not a County- or State-designated scenic highway. The closest eligible State scenic highway is Interstate 40 from Barstow to Needles, approximately 50 miles north of the Project Site. Therefore, the Project would not be visible within this viewshed. Additionally, construction of the Project would not entail the removal of trees, rock outcroppings, and/or historic buildings, as these features do not occur on the Project Site. Impacts would be less than significant.

### Impact 4.1-(c): The Project would not substantially degrade the existing visual character or quality of public views of the site and its surroundings. (Less than Significant Impact.) (Draft EIR pgs. 4.1-17 to 4.1-18)

The Project Site is located in a non-urbanized area. The existing visual quality of the Project Site and surrounding lands is low in vividness, intactness, and unity due to the presence of numerous anthropogenic elements in the landscape, including scattered rural residential properties, existing transportation infrastructure (i.e., U.S. Route 95, SR-62), and the electrical infrastructure in the existing transmission corridor. The minimal level of visual change on the landscape in an area with moderately low visual quality would result in a less than significant impact on visual quality. The proposed solar and energy storage facilities would introduce solar PV panels, buildings and other ancillary components to a primarily undeveloped high desert landscape. The proposed panels would be approximately a maximum of 18 feet above grade at the tallest point and approximately 2 feet above the grade at the lowest point. As such, the moderate level of visual change on the landscape in an area with moderately low visual quality in a less than significant impact on visual quality low visual quality would result in a less than significant and approximately 2 feet above the grade at the lowest point. As such, the moderate level of visual change on the landscape in an area with moderately low visual quality would result in a less than significant impact on visual quality, and Project elements would only be slightly noticeable in contrast with the surrounding desert landscape. As such, the Project would not substantially degrade the existing visual character or quality of public views of the site and its surroundings, and impacts would be less than significant.

### Impact 4.1-(d): The Project would not create a new source of substantial light or glare which would adversely affect daytime or nighttime views in the area. (Less than Significant Impact.) (Draft EIR pgs. 4.1-18 to 4.1-19)

Construction of the Project is anticipated to occur during daytime hours as permitted by the County. Nighttime construction activities could occur, which may involve the use of temporary construction lighting equipment. The use of nighttime construction lighting would only occur for a short duration if nighttime work was necessary and approved by the County. Any construction lighting would be directed away from adjacent residences and toward active construction areas. Therefore, construction lighting impacts would be less than significant.

The proposed Project would have lighting installed at the primary access gates to the Project Site, within the battery storage containers, and around the on-site substation. Project lighting would be shielded and directed downward to minimize light trespass onto any surrounding properties. Lighting within the battery storage containers would be motion-activated. Project lighting at the substation would normally be off unless activated by on-site personnel. Such lighting would be shielded and aimed downward and would comply with County Ordinance No. 4419, which regulates glare, outdoor lighting, and night sky protection. County lighting regulations require submittal of and approval of exterior lighting plans per the General Plan, and any new Project lighting would be installed consistent with County requirements. Therefore, Project operation would not create a new source of substantial light that would adversely affect day or nighttime views in the area, and impacts would be less than significant.

The PV panels would be angled perpendicular to the east-west direction of the sun and are designed to track the position of the sun throughout the day to maximize panel exposure if a tracking system is used. Alternatively, the panels could be installed on a fixed-tilt system and would face to the south. The greatest potential for light reflection to reach viewer locations would occur with a tracking system when the panels would be angled toward the horizon at sunrise and sunset. During these periods, the solar panels would be tilted approximately 10 degrees below a horizontal plane in the direction of the sun. Unabsorbed light would reflect at approximately 20 degrees above the opposite horizon.

The solar power and energy storage facility would be located in a broad flat valley. Potential viewers of the facility primarily include motorists on U.S. Route 95 and residents, who would be less than 20 degrees above the facility. Motorists and residents would not be exposed to the glare at sunrise or sunset due to the low viewing angle. Motorists and residents may perceive indirect glare as an increase in color contrast in the early morning hours when the darkly colored PV panels could appear as lightly colored or while. However, this indirect glare would be brief and would not cause a nuisance to motorists or residents.

The Project would also be designed to ensure consistency with San Bernardino County Code Section 84.29.040, which requires solar energy facilities to be designed to preclude daytime glare on any abutting residential land use zoning district, residential parcel, or public right-of-way. The solar PV panels would not create a substantial source of glare due to the use of anti-reflective coating on the panels and the elevation of potential receptors relative to the facility. Impacts would be less than significant.

Project facilities, including the gen-tie line, battery storage facilities, and on-site substation, would be constructed with metallic components, which could introduce new sources of glare compared to the undeveloped area. Any glare associated with the facilities would be minor and highly scattered because the metallic components would be separated geographically and would not concentrate potential glare in any area. In addition, for the metallic components, the Project would include use of non-galvanized steel or other similar materials to reduce glint and glare. The new overhead conductor and steel support structures installed for the on-site substation and gen-tie line would reflect approximately the same level of light as the existing transmission line facilities in the Project area. Therefore, the metallic electrical equipment, power poles, and buildings would not create a new source of substantial glare that would adversely affect day or nighttime views in the area, and impacts would be less than significant.

**Cumulative Aesthetic Impacts:** The geographic scope for the analysis of cumulative impacts on aesthetic resources includes both the local viewshed within a one-mile radius of the Project Site and area (generally the Vidal area). Local cumulative effects could occur in the immediate Project viewshed if cumulative projects, activities, and landscapes are visible in the same field of view as the Project and could generally be visible from the Project area. Regional cumulative effects could occur if viewers perceive that the general visual quality or landscape character of a regional area is diminished by the proliferation of visible similar structures or construction, even if the changes are not in the same field of view as existing or known future structures or facilities. The result is a perceived "industrialization" or "urbanization" of the existing landscape character. The extent of regional cumulative effects is limited to the project valley.

The Project and any potential cumulative projects within one mile are not located within a scenic vista or visible from any designated scenic vistas. Given the low scenic quality of the area and the low to moderately low degree of visual change expected from the Project, substantial cumulative change to scenic resources within a State scenic highway is not anticipated. Implementation of potential cumulative projects and the Project in an area with moderately low visual quality would not result in degradation of the existing visual

character or quality of public views of the respective sites. The cumulative impact on the night sky would be less than significant due to required conformance with the County's applicable ordinance which are specifically intended to reduce impacts on nighttime skies. The Project and any potential cumulative projects would not introduce new sources of glare that would be directed cumulatively onto any area. As a result, the Project would create a less than significant cumulative impact on local scenic vistas, scenic resources, and visual character. Cumulatively, more lighting would be introduced into the area by proposed, existing, and future development. As with past and currently proposed development, cumulative lighting-related impacts would be reduced through adherence to applicable County ordinance. No cumulatively significant lighting impact would result from implementation of the Project.

### B. Air Quality

### Impact 4.2-(a): The Project would not conflict with or obstruct implementation of the applicable air quality plan. (Less than Significant Impact.) (Draft EIR pgs. 4.2-16 to 4.2-18)

The Project does not include a residential component that would increase local population growth, nor does it include a commercial component that would substantially increase employment. Construction of the Project would not result in residential, commercial, or growth-inducing development that would result in a substantial increase in growth-related emissions. In addition, because of the presence of locally available construction workers, and because of the relatively short duration of construction (approximately 14 months), workers are not expected to relocate to the area with their families.

The Project would not have a substantial increase in population or employment such that it would exceed the Southern California Association of Government's (SCAG) growth forecast. As the Mojave Desert Air Quality Management District (MDAQMD) has incorporated the SCAG forecasts in the air quality management plans (AQMPs), the Project would be consistent with the AQMPs. Impacts would be less than significant.

The Project would be required to comply with all applicable MDAQMD Rules and Regulations. This would include MDAQMD Rules 401, 402, and 403. MDAQMD Rule 403 requires periodic watering for short-term stabilization of disturbed surface area to minimize visible fugitive dust (PM10) emissions, covering loaded haul vehicles, and reduction of non-essential earth moving activities during higher wind conditions. The Project would comply with applicable MDAQMD rules, enforced through Project Conditions of Approval, and not conflict with applicable MDAQMD Rules and Regulations. Unmitigated long-term operational emissions of all criteria pollutants studied would be less than the applicable MDAQMD significance thresholds. As such, the Project would not result in an increase in the frequency or severity of existing air quality violations, or cause or contribute to localized air quality violations, or delay attainment of air quality standards.

Criterion 1 required the Project to be consistent with local land use plans and/or population projections based off the 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). Criterion 2 required the Project to comply with all applicable MDAQMD Rules and Regulations. Criterion 3 required demonstration that the Project implementation will not increase the frequency or severity of a violation in the Federal or State ambient air quality standards. As discussed above, the Project would be consistent with the three criteria and would comply with MDAQMD Rules and Regulations, not induce population growth, and would not cause or contribute to localized air quality violations or delay the attainment of air quality standard or interim emissions reductions specified in the AQMPs. Therefore, the Project would not conflict with or obstruct implementation of the applicable air quality plan. Impacts would be less than significant.

Impact 4.2-(b): The Project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard. (Less than Significant Impact.) (Draft EIR pgs. 4.2-18 to 4.2-21)

The Project involves development of a 160-MW solar PV energy facility and Project substation with an energy storage system. Project construction would result in the temporary addition of pollutants to the local air basin caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and VOC off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity, the specific type of operation, and for dust, the prevailing weather conditions. Construction activities for the Project are anticipated to start in the first quarter of 2023 and would last approximately 14 months. None of the analyzed criteria pollutants emissions would exceed the MDAQMD thresholds during Project construction. Therefore, Project construction would not result in a significant increase in elevated health risks to nearby sensitive receptors and impacts would be less than significant

Operation of the Project would generate VOC, NO<sub>x</sub>, CO, SO<sub>x</sub>, PM10, and PM2.5 emissions from mobile sources, including vehicle trips from maintenance vehicles. Pollutant emissions associated with long-term operations were quantified using CalEEMod modeling software. Because the Project would have no major stationary emissions sources and a relatively low number of employees traveling to the facility site, operation of the Project would result in substantially lower emissions than Project construction. None of the analyzed criteria pollutants emissions would exceed the MDAQMD emissions thresholds during operation of the Project. Therefore, Project operations would not result in a significant increase in elevated health risks to nearby sensitive receptors and impacts would be less than significant. The Project would not result in any significant long-term operational air quality impacts. Adherence to MDAQMD rules and regulations would alleviate potential impacts related to cumulative conditions on a project-by-project basis. The Project would not contribute a cumulatively considerable net increase of any nonattainment criteria air pollutant. Therefore, no cumulative operational impacts associated with implementation of the Project would result.

### Impact 4.2-(d): The Project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. (Less than Significant Impact.) (Draft EIR pg. 6-5)

Odors would be generated from vehicles and equipment exhaust emissions during construction of the Project. Odors produced during construction are typically attributable to tailpipes of construction equipment. These odors would be temporary and intermittent throughout the Project Site. The California Air Resources Board's (CARB) *CEQA Air Quality Handbook* indicates that land uses typically associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting, refineries, landfills, dairies, and fiberglass molding. The Project is a land use that is not consistent with those labeled in CARB's Handbook as being associated with odorous complaints and any odors produced would be minimal and easily dispersed into the atmosphere.

Additionally, the Project is not located near any uses that are sensitive to odors and no other high-odorproducing use. Therefore, the Project would not result in odors, and no impacts would occur.

**Cumulative Air Quality Impacts:** The SCAQMD recommends that project-specific air quality impacts be used to determine the potential cumulative impacts to regional air quality. Adherence to MDAQMD rules and regulations would alleviate potential impacts related to cumulative conditions on a project-by-project basis. The Project would not contribute a cumulatively considerable net increase of any nonattainment criteria air

pollutant. Therefore, no cumulative operational impacts associated with implementation of the Project would result.

### C. Biological Resources

### Impact 4.3-(c): The Project would have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means. (No Impact.) (Draft EIR pg.6-6)

The Project is located within the Vidal Wash and Upper Parker Valley-Colorado River watersheds. One small Freshwater Forested/Shrub Wetland feature was identified on National Wetland Inventory maps in the center of the Project Site. However, no wetlands or wetland features were identified within the Project Site during survey efforts. Therefore, there would be no impacts to state or federally protected wetlands.

## Impact 4.3-(f) The Project would conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan? (No Impact.) (Draft EIR pg.6-6)

The Project is not located within an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan and would, therefore, have no impact on these areas. The Project is within the Desert Renewable Energy Conservation Plan. However, the Desert Renewable Energy Conservation Plan applies only to the Federal Bureau of Land Management (BLM)-administered lands and does not apply to the Project because it is on private land. The Project is not located within critical habitat designated by the U.S. Fish and Wildlife Service (USFWS). Therefore, there would be no impact on critical habitat.

**Cumulative Biological Resource Impacts:** Development of cumulative projects, primarily other renewable energy projects in the County's Desert Region, could result in direct take to special-status plant and wildlife species; construction, operational, and decommissioning disturbances; and/or special-status habitat conversion. Development of the related projects could result in direct take to special-status plant and wildlife species; construction, operational, and decommissioning disturbances; and/or special-status habitat conversion. While most of the related projects would convert undeveloped land into renewable energy facilities, over time, vegetation communities would re-establish between the panels, fencing, and utility structures, allowing wildlife (e.g., rodents, raptors, small birds, and reptiles) to continue inhabiting and foraging on the sites over the lifetime of the projects (approximately 30 years). Decommissioning plans, required for solar projects, also outline revegetation requirements for potential habitat growth. Therefore, while habitat would be temporarily disturbed or removed during the construction and decommissioning phases, operation and post-operation of such renewable energy facilities would not result in substantial permanent impacts to special-status species and habitats, and the affected lands could return to existing conditions for the foreseeable future.

Further, as with the Project, these related projects would also be required to avoid and/or mitigate impacts to special-status species and habitats in accordance with County, the California Department of Fish and Wildlife (CDFW), and USFWS requirements. Therefore, the Project's less than significant impacts with mitigation incorporated, in combination with other reasonably foreseeable development projects in the County's East Desert Region, would not result in significant cumulative impacts to special-status species or

habitats. Accordingly, the Project would not result in a considerable contribution to a significant cumulative impact.

#### **D. Cultural Resources**

### Impact 4.4-(c): The Project would not disturb any human remains, including those interred outside of dedicated cemeteries. (Less than Significant Impact.) (Draft EIR pg. 4.4-14)

The Project Site is not located on a known cemetery. Construction of the Project would involve grading, which may have the potential to uncover unknown human remains. However, if human remains are found during Project ground-disturbing activities, the Project would be required to adhere to Health and Safety Code (HSC) Sections 7050.5-7055 and PRC Sections 5097.98 and 5097.99. HSC Sections 7050.5-7055 describe the general provisions for treatment of human remains. Specifically, HSC Section 7050.5 states that no further disturbance shall occur until the San Bernardino County Medical Examiner-Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. In the event of an unanticipated discovery of human remains, the San Bernardino County Medical Examiner-Coroner would be notified immediately. If the human remains are determined to be prehistoric, the Medical Examiner-Coroner would notify the Native American Heritage Commission (NAHC), which would notify the Most Likely Descendant (MLD). The MLD would complete an inspection of the site within 48 hours of notification and may recommend scientific removal and nondestructive analysis of human remains and items associated with Native American burials. Compliance with these regulations would ensure impacts to human remains resulting from the Project would be less than significant.

Operation of the Project would not require substantial ground disturbing activities, such as grading or excavation. Therefore, it is not anticipated that Project operation would encounter subsurface human remains, and impacts to human remains during Project operation are not anticipated.

**Cumulative Cultural Resource Impacts:** Similar to the Project, ground-disturbing activities associated with related projects would have the potential to uncover previously unknown archaeological resources and human remains. The Project, in combination with cumulative development, could contribute to the loss of undeveloped land, which could potentially contain cultural resources. Determinations regarding the significance of impacts of the related projects on cultural resources would be made on a case-by-case basis and, if necessary, the applicants of the related projects would be required to implement appropriate mitigation measures. It is not anticipated that cumulative impacts would be significant. Therefore, the Project's contribution to cumulative impacts associated with impacts to sensitive receptors would be less than cumulatively considerable.

### E. Geology and Soils

Impact 4.5-(a.i): The Project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. (Less than Significant Impact.) (Draft EIR pg. 6-8)

Southern California is a seismically active region subject to strong ground acceleration from earthquake events along major regional faults. However, according to the County's Geologic Hazard Overlay maps, the Project Site is not in the vicinity of a known earthquake fault. The closest earthquake fault line, the

Chemehuevi graben fault, is approximately two miles long, and located approximately 30 miles north of the site and adjacent to Lake Havasu. The Project would not require substantial ground disturbance that could induce seismic activity and would not include any habitable structures. Nonetheless, the design of any structures on the Project Site would be designed to accommodate seismic loading, pursuant to the 2019 California Building Code (CBC). Specific standards that may be used for the Project include but are not limited to, anchoring (or other means of securing application structures), use of appropriate materials, and flexible joints where appropriate. Therefore, impacts from proximity to fault zones are considered less than significant.

## Impact 4.5-(a.ii): The Project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving strong seismic ground shaking. (Less than Significant Impact.) (Draft EIR pg. 6-8)

Southern California is a seismically active region, but the Project Site is 30 miles north of the nearest earthquake fault, and no habitable structures are proposed as part of the Project. The Project components would be designed to resist structural collapse to the greatest extent possible through incorporation of design guidelines from the CBC and the County Development Code. Impacts are considered less than significant.

## Impact 4.5-(a.iii): The Project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving seismic-related ground failure, including liquefaction. (Less than Significant Impact.) (Draft EIR pg. 6-8)

According to the County's Geologic Hazard Overlay maps, the Project Site is not located in the vicinity of any areas prone to liquefaction, with the closest area being approximately 30 miles north. Therefore, the potential for liquefaction at this Project Site is considered to be low. Furthermore, the design of the Project would incorporate requirements of the CBC that would address potential seismic-related effects such as liquefaction, settlement, and lateral spreading. With incorporation of applicable standards, the Project would not result in potential impacts associated with seismic-related ground failure, and impacts would be less than significant.

## Impact 4.5-(a.iv): The Project would not directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving landslides. (Less than Significant Impact.) (Draft EIR pg. 6-8)

The County's Geologic Hazard Overlay maps identify no areas prone to landslide in the vicinity of the Project Site, with the closest area prone to landslide more than 100 miles west of the Project Site. Additionally, the Project area is relatively flat terrain where landslides have not historically been an issue. No impacts would occur.

### Impact 4.5-(c): The Project would not be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse; (Less than Significant Impact.) (Draft EIR pg. 6-9)

The Project Site is not identified as an area prone to landslides or liquefaction and is not in the vicinity of such an area. According to the Land Subsidence Potential map from the Countywide Plan, there is insufficient data of the estimated potential subsidence of the area. Subsidence is commonly caused by the removal of subsurface water and underground mining. The Project does not propose any mining activities or removal of

subsurface water. Further, no significant grading is proposed as part of the Project, and only minor ground disturbance is anticipated. Therefore, the impact to geologic stability would be less than significant.

## Impact 4.5-(d): The Project would not be located on expansive soil, as defined in Table 181B of the Uniform Building Code (1994), creating substantial risks to life or property. (Less than Significant Impact.) (Draft EIR pg. 6-9)

The County's Geologic Hazard Overlay maps do not identify areas prone to landslide to be in the vicinity of the Project Site. The closest areas prone to landslides are more than 100 miles west of the Project Site. According to the Countywide Plan, the Desert Regions of the County have low to moderate levels of expansive soils. Because of the remote location, the U.S. Department of Agriculture Soil Map is unable to classify the soil composition of the Project Site. However, the Project would be unmanned, and design of the Project would incorporate requirements of the CBC that would address potential seismic-related effects. With incorporation of applicable standards, the Project would not result in potential impacts associated with expansive soil, and impacts would be less than significant.

## Impact 4.5-(e): The Project would have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater. (No Impact.) (Draft EIR pg. 6-9)

The Project would be unmanned and does not propose to use septic tanks or alternative wastewater disposal systems. Therefore, the Project would not result in impacts relative to wastewater. No impacts would result.

**Cumulative Geology and Soils Impacts:** As with the Project, cumulative projects would be subject to the same established guidelines and regulations pertaining to building design and seismic safety, including those set forth in the CBC and other applicable regulations. In addition, the cumulative projects would not have the potential to directly or indirectly exacerbate existing seismic conditions cumulatively in combination with the Project. Therefore, considering the existing regulatory requirements and regulations that would apply to all development, the Project's contribution to cumulative impacts associated with geology and soils would not be considerable.

### F. Greenhouse Gas Emissions

### Impact 4.6-(a): The Project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment. (Less than Significant Impact.) (Draft EIR pgs. 4.6-14 to 4.6-16)

Project construction would result in GHG emissions, primarily associated with the use of off-road construction equipment, on-road vendor trucks, and worker vehicles. The County's GHG Plan recommends that construction emissions be amortized over a 30-year project lifetime, so that GHG reduction measures will address construction GHG emissions as part of the operational GHG reduction strategies. Thus, the Project's total construction GHG emissions were calculated, amortized over 30 years, and added to the total operational emissions. Project operation would generate GHG emissions through motor vehicle trips to and from the Project Site, energy use (natural gas and generation of electricity consumed by the Project), solid waste disposal, and generation of electricity associated with water supply, treatment, and distribution and wastewater treatment. Because the Project would have no major stationary emission sources, operation of the proposed solar farm would result in substantially lower emissions than Project construction. Operational activities would create 1,426.62 MTCO<sub>2</sub>e per year and, when combined with the amortized construction and

decommissioning emissions (approximately 1,122.01 million metric tons of carbon dioxide equivalent [MTCO<sub>2</sub>e]), the Project would create a total of 1,501.42 MTCO<sub>2</sub>e per year, which is within the MDAQMD threshold of 100,000 MTCO<sub>2</sub>e per year. Therefore, a less than significant generation of GHG emissions would occur from development of the Project. Impacts would be less than significant.

Impact 4.6-(b): The Project would not conflict with any applicable plan, policy, regulation, or recommendation of an agency adopted for the purpose of reducing GHG emissions. (Less than Significant Impact.) (Draft EIR pgs. 4.6-16 to 4.6-19)

The plan consistency analysis demonstrates that the Project is consistent with applicable plans, policies, regulations and GHG reduction actions/strategies, such as those outlined in the 2021 Regional GHG Reduction Plan, County's Policy Plan, and CARB's 2017 Scoping Plan Update. Therefore, the Project would not conflict with any applicable plan, policy, or regulation of an agency adopted for the purpose of reducing emissions of GHGs. Thus, impacts would be less than cumulatively considerable.

**Cumulative Greenhouse Gas Emissions Impacts:** It is generally the case that an individual project of this size and nature is of insufficient magnitude by itself to influence climate change or result in a substantial contribution to the global GHG inventory. GHG impacts are recognized as exclusively cumulative impacts. There are no non-cumulative GHG emission impacts from a climate change perspective. The additive effect of Project related GHGs would not result in a reasonably foreseeable cumulatively considerable contribution to global climate change. In addition, the Project as well as other cumulative related projects would also be subject to all applicable regulatory requirements, which would further reduce GHG emissions. As the Project provides a net positive effect on GHG emissions by providing clean renewable energy and would comply with all applicable plans, rules, regulations, and policies, its contribution to cumulative GHG emissions and climate change impacts would be less than cumulatively considerable.

#### G. Hazards and Hazardous Materials

Impact 4.7-(a): The Project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials. (Less than Significant Impact.) (Draft EIR pgs. 6-9 to 6-10)

Construction would involve short-term use of hazardous substances such as fuels, lubricants, adhesives, and solvents. The potential risk associated with the accidental discharge during use and storage of such construction-related hazardous materials is considered low because the use, storage, transport, and disposal of hazardous materials used in construction of the facility would be carried out in accordance with federal, state, and County regulations. These regulations include those set forth by the County Fire Department's Hazardous Materials Division (HMD), California Division of Occupational Safety and Health (Cal/OSHA), the California Accidental Release Prevention (CalARP) Program, the California Health and Safety Code, and the Environmental Protection Agency's (EPA) Hazardous Waste Control Act. Additionally, the Project would implement BMPs pursuant to the National Pollutant Discharge Elimination System (NPDES) Construction General Permit. Safety Data Sheets (SDSs) for all applicable materials present on the Project Site would be made readily available to personnel as required by the San Bernardino County Fire Department Hazardous Materials Division. During construction of the facility, non-hazardous construction debris would be generated and disposed of in local landfills. Sanitary waste would be managed using portable toilets, with waste being disposed of at approved sites.

The AC/DC collection system would be installed in shallow subsurface trenches. If explosives are to be used, the applicant would be required to obtain all necessary permits and approvals through the San Bernardino County Fire Department HMD. This may include preparing a Business Emergency Contingency Plan and securing a Certified Unified Program Agency (CUPA) Permit for hazardous materials handling and/or hazardous waste generation, as required by the HMD. Explosives would be transported, handled and used in accordance with all applicable laws and regulations.

Operation of the Project would include limited chemical use such as mineral oil in the substations and lithium ion in the battery structures. The Project is designed to comply with the requirement of HSC Chapter 6.95, including containment provisions for potential spills by containing the materials within boxed components and mounting these on concrete foundations. All materials would be used in stable applications and contained in accordance with applicable regulatory requirements, which include the Hazardous Materials Transportation Act, International Fire Code, and Title 22 and Title 27 of the California Code of Regulations. Impacts would be less than significant.

### Impact 4.7-(b): The Project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment. (Less than Significant Impact.) (Draft EIR pgs. 4.7-12 to 4.7-13)

Project construction activities would involve the use and transportation of hazardous materials such as fuels, asphalt, lubricants, toxic solvents, pesticides, and herbicides. Construction equipment generally contains limited amounts of hazardous materials such as diesel fuel, hydraulic oil, lubricants, grease, solvents, cleaners, adhesives, paints, and other petroleum-based products. Project construction activities would occur in accordance with all applicable local standards set forth by the County, as well as State and federal health and safety requirements that are intended to minimize hazardous materials risk to the public, such as Cal/OSHA requirements, the Hazardous Waste Control Act, the California Accidental Release Protection Program, and the California HSC. For hazardous materials used during construction, contractors, in accordance with State regulations, would be required to properly use and store materials in appropriate containers with secondary containment to contain a potential release. Compliance with all applicable regulations would ensure that the risk of a release of hazardous materials into the environment during construction is less than significant.

During operation, the Project would not generate or require the use or storage of significant quantities of hazardous substances. All storage and disposal of hazardous materials on the Project site would be in accordance with regulations set forth by the County Fire Department's HMD, Cal/OSHA, CalARP, the California HSC, and the U.S. EPA Hazardous Waste Control Act. Moreover, the photovoltaic panels used in the Project are environmentally sealed collections of photovoltaic cells that require no chemicals and produce no waste materials. BESS facilities do not store or generate hazardous materials in quantities that would represent a risk to offsite receptors. Although the Project's BESS would be enclosed in containers, battery storage systems create potential for accidental release of hazardous substances in the rare case of a fire event. Nonetheless, the Project will be required to comply with the SBCFPD Fire Code, 2019 California Fire Code, and the National and International Fire Codes. These standards address, among other topics: development standards for design, installation, commissioning, operation, maintenance and decommissioning of these systems; equipment and system fire testing in accordance with UL standards, stringent standards for commissioning, operation and testing, decommissioning, seismic and structural design, signage, security installations, fire detection and suppression systems, vegetation control; and

minimum setbacks from lot lines, roads, and adjacent buildings. Compliance with the appropriate regulations and standard protocols, as well as inclusion of the Project's fire and safety features, would reduce the potential for hazardous materials impacts during Project operation. Therefore, Project operation would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accidental conditions involving the release of hazardous materials into the environment, and impacts would be less than significant.

## Impact 4.7-(c): The Project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school. (No Impact.) (Draft EIR pg. 6-10)

The nearest schools, Blake Primary Elementary School, at 701 South Navajo Avenue, Wallace Elementary School, at 1201 West 16<sup>th</sup> Street, Wallace Junior High School, at 1320 West 18<sup>th</sup> Street, and Parker High School, at 1600 South Kofa Avenue, all of which are located in Parker, Arizona approximately nine northeast of the Project Site. The Project does not propose any uses which could generate hazardous emissions or involve the handling of hazardous materials, substances, or waste in substantial quantities that would have an impact to surrounding schools. The Project would be required to adhere to all applicable federal, State, and regional regulations regarding handling, transport and disposal of hazardous materials. As the Project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school, no impacts would occur.

## Impact 4.7-(d): The Project would not be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code §65962.5 and, as a result, it would not create a significant hazard to the public or the environment. (No Impact.) (Draft EIR pg. 6-10)

The Project Site is not located on a known site or in the vicinity of a known site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5. Therefore, the Project would result in no impacts associated with hazardous materials sites.

# Impact 4.7-(e): The Project, if located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would not result in a safety hazard or excessive noise for people residing or working in the Project area. (No Impact.) (Draft EIR pgs. 6-10 to 6-11)

The Project Site is not located within an airport land use plan or within two miles of an airport. The Project Site is approximately eight miles southeast of the Vidal Junction Airport and ten miles southwest of Parker Municipal Airport in Arizona. The closest airport where a Comprehensive Land Use Plan has been adopted is Needles Municipal Airport, approximately 50 miles to the north. Additionally, the Project Site would be unmanned and operated, monitored, and dispatched remotely on a day-to-day basis. No impacts would occur.

## Impact 4.7-(f): The Project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. (Less than Significant Impact.) (Draft EIR pgs. 4.7-13 to 4.7-14)

The County has adopted the Multi-Hazard Functional Plan (MHFP) to address the County's planned response to extraordinary emergency situations associated with natural disasters, technological incidents, and national

security emergencies. The objective of the MHFP is to incorporate and coordinate all the facilities and personnel of the County into an efficient organization capable of responding to any emergency. The MHFP provides a process for emergency management and response with the County. The MHFP identifies the organization structure and responsibilities of agencies in the event of an emergency or disaster. No revisions to the MHFP would be required as a result of the Project.

During construction, materials would be placed within the Project boundaries adjacent to the current phase of construction in order to avoid any access conflicts in case of emergency evacuations. During operation, primary access to the Project Site would be via U.S Route 95 directly onto a new Project-controlled, dirt access road on the west side of the Project Site. A 26-foot-wide perimeter access road would be constructed surrounding the Project Site. Additional 20-foot-wide internal maintenance roads would be located throughout the Project Site. All of the Project roads have been designed in compliance with the SBCFD Fire Code to ensure accessibility for the fire department and emergency vehicles. Internal access roads would be cleared and compacted for equipment and emergency vehicle travel and access to the solar blocks and BESS. Primary access to the Project Site. Therefore, the Project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan. Impacts would be less than significant.

## Impact 4.7-(g): The Project would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires. (Less than Significant Impact.) (Draft EIR pg. 4.7-14)

The Project Site is not located within a designated VHFHSZ. Furthermore, the County's Hazard Overlay Mapping shows that the Project Site is not located in a Fire Safety Overlay District. No areas in the general vicinity of the site are classified within a Fire Safety Overlay District. Therefore, the Project would not expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires, and no impact would occur.

However, as previously discussed, the Project's BESS creates potential for accidental release of hazardous substances during a fire event. Nonetheless, the Project will be required to comply with the SBCFPD Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code. These regulations implement state-of-the-art development and performance standards that ensure the safe installation, operations, and maintenance of utility scale BESS. The Project would also implement fire and safety features at the Module Level, BESS Container Level, Site Level, and Operational Level. Compliance with the SBCFPD Fire Code, 2019 California Fire Code, National Fire Code, and International Fire Code, as well as inclusion of the Project's fire and safety features, would reduce the potential for a wildland fire event to less than significant levels.

**Cumulative Hazards and Hazardous Materials Impacts:** With adherence to applicable federal, State, and local regulations governing hazardous materials, the potential risks associated with hazardous wastes would be reduced to a level of less than significant. The incremental effects of the Project related to hazards and hazardous materials, are anticipated to be minimal, and any effects would be site-specific. Therefore, the Project would not result in incremental effects to hazards with respect to hazardous materials that could be compounded or increased when considered together with similar effects from other past, present, and

reasonably foreseeable probable future projects. Therefore, Project would not result in cumulatively considerable impacts to or from hazards or hazardous materials.

#### H. Noise

Impact 4.8-(a): The Project would not generate a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. (No Impact for Construction. Less than Significant Impact for Operation.) (Draft EIR pgs. 4.8-10 to 4.8-15)

The nearest occupied noise-sensitive receptor to the Project Site is a residential use approximately 1,600 feet to the north along Old Parker Road. Noise levels from construction equipment have the potential to exceed 80 dBA. At approximately 1,600 feet to the nearest occupied residence, noise levels due to construction would be reduced a minimum of 30 dBA and would not contribute to the overall ambient noise levels. While the Project is located within the Resource Conservation land use zoning district, Section 83.01.080 of the County's Development Code sets an exterior noise limit for residential noise sensitive land uses of 55 dBA L<sub>eq</sub> for daytime hours of 7 a.m. to 10 p.m. and 45 dBA L<sub>eq</sub> during the noise sensitive nighttime hours of 10 p.m. to 7 a.m.

No Project construction activity is planned outside these hours. Additionally, all equipment would be properly fitted with mufflers and all staging and maintenance would be conducted as far away from the nearest occupied residence as possible. Noise levels from construction equipment have the potential to exceed 80 dBA at a distance of 80 feet. At over 1,600 feet to the nearest residence, noise levels due to construction would be reduced a minimum of 30 dBA and would not contribute to the overall ambient noise levels. No construction impacts are anticipated.

Project O&M would include permanent and temporary noise sources associated with the solar PV systems, electrical collection lines, gen-tie power lines, BESS, and maintenance activities. The combined noise level at the nearest property lines were projected to be 45 dBA  $L_{eq}$  or less based on the proposed site configuration and the proposed equipment. Since not all equipment will be simultaneously operating no impacts are anticipated, the Project will comply with the most restrictive nighttime property line standard of 45 dBA  $L_{eq}$ , and no mitigation is needed. Cumulatively, the panel washing noise level of 48 dBA combined with the transformer and inverter noise levels would result in an overall cumulative noise level of 50 dBA or less. Since the panel washing equipment would only operate during the daytime hours of 7 a.m. and 10 p.m., the noise levels would not exceed the County's daytime threshold of 55 dBA. Additionally, the paneling washing will be moving farther away from the property line as washing is conducted. Therefore, operational impacts would be less than significant.

Given the fact that much of the construction equipment necessary to construct the Project would also be required for Project decommissioning, it is reasonable to assume that noise generated from decommissioning activities would be similar in nature to construction activities. Similar to the construction noise analysis above, Project decommissioning would potentially result in increased noise levels compared to existing conditions. However, San Bernardino County Code Section 83.01.080 exempts construction activities from the noise standard providing that such activities take place between the hours of 7:00 a.m. to 7:00 p.m. except Sundays and Federal holidays. Therefore, upon compliance with the County's allowable construction hours (San Bernardino County Code Section 83.01.080), short-term noise impacts from decommissioning activities would be less than significant.

### Impact 4.10-(b): The Project would not generate excessive groundborne vibration or groundborne noise levels. (Less than Significant Impact.) (Draft EIR pgs. 4.8-15 to 4.10-17)

Vibration velocities from typical heavy construction equipment operations that would be used during Project construction range from 0.003 to 1.518 inches per second peak particle velocity (in/sec PPV) at 25 feet from the source of activity. The nearest occupied noise-sensitive receptor to the Project Site is a residence located approximately 1,600 feet to the north. At this distance, vibration velocities would be imperceptible (i.e., up to 0.003 in/sec PPV). Therefore, the 0.2 in/sec PPV significance threshold and the 0.4 in/sec PPV human annoyance criteria would not be exceeded as a result of Project construction activities. Thus, no Project-related sources of groundborne vibration or groundborne noise would be expected to affect sensitive receptors in the Project vicinity, and there would not be any potential for excessive exposure of persons to or generation of groundborne vibration levels. Impacts would be less than significant.

The Project would have O&M components, such as HVAC systems for the BESS, maintenance vehicles, inverters, and transformers, that would not generate noticeable groundborne vibration levels. Project operations would not involve any sources capable of generating perceptible levels of vibration in the surrounding area. There would be no permanent source or potential to change vibration levels, except during unscheduled maintenance or repair activities, which would be similar to construction activities. Regular maintenance trucks could generate 0.076 inch-per-second PPV a distance of 25 feet. Pursuant to San Bernardino County Code Section 83.01.090, groundborne vibration shall not exceed 0.2 in/sec PPV at the nearest property line within a residential, commercial and industrial land use zoning district. Regular maintenance trucks would not generate groundborne vibration levels exceeding the County's 0.2 in/sec PPV vibration threshold at the Project Site boundary. Thus, the County's 0.2 in/sec PPV vibration threshold would not be exceeded, and impacts would be less than significant.

It is reasonable to assume that vibration generated from decommissioning activities would be similar in nature to construction activities. As with the construction activities described above, decommissioning activities would not be expected to generate groundborne noise that would affect sensitive receptors in the Project vicinity, and there would not be any potential for excessive exposure of persons to or generation of groundborne vibration levels. Impacts would be less than significant.

#### Impact 4.10-(c): The Project would not be within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels. (No Impact.) (Draft EIR pg. 6-14)

The Project Site is approximately eight miles southeast of the Vidal Junction Airport and ten miles southwest of Parker Municipal Airport in Arizona, but neither of these airports has adopted land use plans. The closest airport where a Comprehensive Land Use Plan has been adopted is Needles Municipal Airport, approximately 50 miles to the north. Therefore, the Project Site is outside the airport's noise contours. Additionally, the Project Site would be unmanned and operated, monitored, and dispatched remotely on a day-to-day basis. No impact would occur.

**Cumulative Noise Impacts:** The combination of the Project together with other related present and reasonably foreseeable future projects in the Project vicinity could involve actions with the potential to result in noise impacts. However, construction noise impacts for each cumulative project would be mitigated through compliance with the County's standards and ordinances, and any necessary mitigation measures

identified through the County's development review process. Thus, construction noise impacts would not be cumulatively considerable, and impacts would be less than significant.

Operation of the Project would not result in a substantial permanent increase in ambient noise levels from on-site stationary or off-site mobile traffic noise sources. In addition, cumulative projects in the Project vicinity would be subject to the development review process, which could include conditions of approval to minimize the exposure of sensitive receptors and other receiving land uses to excessive noise to the furthest extent possible. Therefore, operational noise impacts would not be cumulatively considerable, and impacts would be less than significant.

Temporary noise impacts from decommissioning activities associated with the Project would not likely combine with other cumulative projects in close proximity and at the same time. Therefore, noise and vibration impacts from construction, operation, and decommissioning would not be cumulatively considerable, and impacts would be less than significant.

#### I. Transportation

Impact 4.9-(a): The Project would not conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities. (Less than Significant Impact.) (Draft EIR pgs. 4.9-6 to 4.9-8)

Project construction is anticipated to be completed over a period of approximately 14 months, with construction occurring between the hours of between 7:00 a.m. and 7:00 p.m. every day except Sundays and Federal holidays in accordance with County noise standards. On-site workforce is expected to average 220 workers per day with a peak of up to 495 workers. During peak construction activities approximately an average of 495 employees would travel to and from the Project Site on a daily basis Monday through Friday, along with a maximum of 25 medium size trucks per day would be required. This translates to approximately 1,090 daily vehicle trips during Project construction. Construction traffic is considered temporary (approximately 14 months) and is not expected to negatively affect current operations of the roadway network near the Project Site.

The Project is expected to generate approximately 40 trips per year associated with solar panel washing activities. The Project Site is also not located within 300 feet of an intersection of two Collector streets or higher, or any impacted intersections as determined by the Traffic Division. The Project is a utility-scale solar and energy storage facility and would not create safety or operational concerns.

As a standard condition of approval, and per comments received from the County Department of Public Works on the CUP applications (Project #PROJ-2021-00012), the Project would be required to provide a Construction Traffic Management Plan (CTMP) to the County Department of Public Works, Transportation Operations Division prior to the issuance of grading permits. Implementation of the CTMP would ensure that Project construction would not result in any access or traffic issues on roads surrounding the Project Site, such that there would be a conflict with a program, plan, ordinance, or policy addressing the circulation system. Solar panel washing is expected to occur two times per year and general labor may assist in the panel cleaning. Therefore, it was assumed that the Project would generate approximately 40 trips per year associated with solar panel washing activities. From a daily and peak hour perspective, these trips are considered nominal and would not be expected to impact the existing road network near the Project Site including U.S. Route 95. The roadway network in the vicinity is characterized by free-flowing traffic

conditions, and vehicles on the roadway generally travel unimpeded by others. Therefore, traffic during Project operation would not conflict with the San Bernardino Congestion Management Plan (CMP) standards.

Currently no vehicular access roads are provided to the Project Site. Site access would be provided via two access roads on the northern and southern portions of the west side of the site. While existing unofficial roads would be utilized to the greatest extent possible, potential new unpaved roads may need to be constructed off site to serve as access roads from the existing road network to the Project. No public transit, pedestrian, or bicycle facilities currently exist on U.S. Route 95, Old Parker Road or in the vicinity of the Project Site. The Project would also not develop any new public roadways, transportation facilities, or transportation-related improvements.

As the Project would not develop a new roadway system or road improvements and would not bring additional employees to the Project Site, the Project would not conflict with any programs, plans, ordinances, or policies related to transportation. Therefore, impacts during Project construction and operation would be less than significant.

### Impact 4.9-(b): The Project would not conflict or be inconsistent with CEQA Guidelines §15064.3, subdivision (b). (Less than Significant Impact.) (Draft EIR pgs. 4.9-8 to 4.9-9)

According to the County's Transportation Impact Study Guidelines (TISG), land use projects that meet certain screening criteria are assumed to result in a less-than-significant transportation impact under CEQA and do not require a detailed quantitative vehicle miles traveled (VMT) assessment. Impacts due to construction activities would be temporary and would not result in any meaningful long-term or permanent change in VMT. During operations, the Project would generate 20 average daily trips (ADT), with approximately 40 trips required for cleaning during operations. These trips are less than the 110 ADT daily vehicle trips screening threshold. As such, the Project meets one of the screening criteria identified in the TISG, and a detailed quantitative VMT assessment is not required. Therefore, the Project is considered to have a less-than-significant VMT impact.

### Impact 4.9-(c): The Project would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment). (Less than Significant Impact.) (Draft EIR pg. 6-18)

The Project would not substantially increase driving hazards, as the on-site access road would be used only by maintenance staff and emergency responders in the event of an emergency, and alterations to U.S. Route 95 are not proposed. The on-site access road would accommodate large trucks and vehicles, including fire trucks, per County regulations and would provide a clear line of sight and merging capabilities to U.S. Route 95. Therefore, the Project would not significantly increase hazards due to design features or incompatible uses. Impacts would be less than significant.

### Impact 4.11-(d): The Project would not result in inadequate emergency access. (Less than Significant Impact.) (Draft EIR pg. 6-18)

The Project would not generate traffic volumes that would impede emergency access to the Project Site and would not result in a significant and permanent delay for emergency vehicles accessing U.S. Route 95. The Project would comply with emergency access requirements, per the SBCFPD Fire Code, including turning

radius and maneuverability of large emergency vehicles such as fire trucks and ambulances. Therefore, the Project would not result in inadequate emergency access, and impacts would be less than significant.

**Cumulative Transportation Impacts.** Each of the cumulative projects considered in the cumulative transportation analysis of consistency with programs, plans, policies, and ordinances would be separately reviewed and approved by the County, including a check for consistency with applicable policies. As the Project would not be inconsistent and would not conflict with the programs, plans, policies, and ordinances that are analyzed above, the Project in combination with the cumulative projects would not create inconsistencies nor result in cumulative impacts with respect to the identified programs, plans, policies, and ordinances.

Similar to the Project, any cumulative project that would be subject to environmental review would be required to evaluate VMT on a project-by-project basis. If the cumulative project were determined to have potentially significant VMT impacts, it would be required to include appropriate mitigation measures to reduce VMT impacts to a less-than-significant level. With regard to geometric hazards, each cumulative project would be reviewed by the County to ensure compliance with applicable County requirements relative to the provision of safe access for vehicles, pedestrian, and bicyclists. Furthermore, since modifications to access and circulation plans are largely confined to a project site and immediate surrounding area, a combination of impacts with other cumulative projects that could potentially lead to cumulative impacts is not expected. With regard to emergency access, cumulative projects would likely implement a similar CTMP to include construction traffic measures to ensure adequate emergency access is maintained in and around the cumulative project sites throughout construction activities. Coordination of these plans will ensure construction activities of concurrent cumulative projects and associated hauling activities (if any) are managed in collaboration with one another and the Project. Therefore, the Project's potential contribution to cumulative impacts associated with emergency access would not be considerable.

#### 4.2 Environmental Impacts Mitigated To A Level Of Less-Than-Significant

The following issues from the environmental categories analyzed in the EIR were found to be potentially significant but can be mitigated to a less-than-significant level with the implementation of mitigation measures: air quality, biological resources, cultural resources, geology and soils, and tribal cultural resources. This County hereby finds pursuant to PRC Section 21081 that all potentially significant impacts listed below can and will be mitigated to below a level of significance by implementation of the mitigation measures in the EIR; and that these mitigation measures are included as Conditions of Approval and set forth in the MMRP adopted by the Review Authority. Specific Findings for each category of such impacts are set forth in detail below.

#### A. Air Quality

### Impact 4.2-(c): The Project could expose sensitive receptors to substantial pollutant concentrations. (Potentially Significant Construction Impact.) (Draft EIR pgs. 4.2-21 to 4.2-25)

Construction and operational emissions would not result in a significant increase in elevated health risk to nearby sensitive receptors, and impacts would be less than significant. The Project would not cause carbon monoxide hotspots in excess of applicable standards at any intersections within the County, and impacts would be less than significant.

During ground disturbing activities associated Project construction, the potential exists that such activities could disturb dust particles and, if present, *Coccidioides immitis* (CI) spores, which could then be released into the air and potentially be inhaled by on-site workers and nearby sensitive receptors; exposure to these spores can cause Valley Fever. The Project is required to control dust through compliance with applicable MDAQMD rules, as well as providing training and awareness of Valley Fever via Mitigation Measure AQ-1. With the implementation of Mitigation Measure AQ-1, the potential for the release of CI spores, if present, and the potential for workers or other sensitive receptors to be exposed to CI would be reduced to less than significant levels.

**Finding.** The County finds that changes or alterations have been required in, or incorporated into, the Project that substantially lessen significant exposure to Valley Fever during construction as identified in the Final EIR. With the implementation of Mitigation Measure AQ-1, exposure to Valley Fever during construction would be reduced to less-than-significant levels.

**Mitigation Measure AQ-1:** Prior to ground disturbance activities, the Applicant must prepare a Valley Fever Management Plan (VFMP), including a Valley Fever training program, to be implemented during construction to address potential risks from CI by minimizing the potential for unsafe dust exposure during construction. The VFMP will identify best management practices including:

- Development of an educational Valley Fever Training Handout for distribution to onsite workers, which should include general information about the causes, symptoms, and treatment instructions regarding Valley Fever, including contact information of local health departments and clinics knowledgeable about Valley Fever.
- Conducting Valley Fever training sessions to educate all Project construction workers regarding appropriate dust management and safety procedures, symptoms of Valley Fever, testing, and treatment options. This training must be completed by all workers and visitors (expected to be on-site for more than 2 days) prior to participating in or working in proximity to any ground disturbing activities. Signed documentation of successful completion of the training is to be kept on-site for the duration of construction.
- Developing a job-specific Job Hazard Analyses (JHA), in accordance with Cal/OSHA regulations, to analyze the risk of worker exposure to dust, and maintain and manage safety supplies identified by the JHA.
- Provide and/or require, if determined to be needed based on the applicable JHA, OSHA-approved half-face respirators equipped with a minimum N-95 protection factor for use during worker collocation with surface disturbance activities, following completion of medical evaluations, fittesting, and proper training on use of respirators.

**Basis for Finding.** Mitigation Measure AQ-1 requires that the construction contractor prepare a VFMP, including a Valley Fever training program, a job-specific JHA, in accordance with Cal/OSHA regulations, and provide and/or require, if determined to be needed based on the applicable JHA, OSHA-approved half-face respirators. With the implementation of Mitigation Measure AQ-1, exposure to Valley Fever during construction would be reduced to less than significant levels.

#### **B. Biological Resources**

Impact 4.3-(a): The Project could have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service. (Potentially Significant Impact.) (Draft EIR pgs. 4.3-13 to 4.3-16)

Regarding special status plant species, the Project has the potential to impact special-status species through loss of habitat as well as direct and indirect impacts to these species. Based on the results of the field surveys and a review of specific habitat preferences, occurrence records, known distributions, and elevation ranges, it was determined that no special status plant species were identified within the Project Site boundaries. Although no special status plant species were identified within the Project Site boundaries, there is potential for those species to occur near the Project Site boundaries. Mitigation Measure BIO-1 would be implemented to ensure no impacts would occur to sensitive species potentially occurring near the Project Site boundaries. Mitigation Measure BIO-1 requires a biological monitor be present prior to initiation of ground disturbing activities to demark limit of disturbance boundaries with flagging and/or staking to clearly define the work area. With the implementation of Mitigation Measure BIO-1, the potential for special status plant species to be impacted directly and indirectly by the Project would be reduced to less than significant levels.

Regarding special status wildlife species, two (2) special-status wildlife species were observed during the survey: loggerhead shrike and black-tailed gnatcatcher. In order to avoid impacts to potential nesting birds on-site, vegetation trimming/crushing would take place outside the general bird breeding season (February 15 to September 15), to the maximum extent practical, in accordance with Mitigation Measure BIO-4. If avoidance is not possible, Mitigation Measure BIO-4 requires that a qualified biologist conduct a nesting bird survey prior to ground-disturbing activities to comply with CDFW Code 3503 and 3503.5 and the Migratory Bird Treaty Act (MBTA). With implementation of Mitigation Measure BIO-4, impacts would be reduced to less than significant.

No live burrowing owls were observed within the Survey Area during the burrowing owl surveys. Nonetheless, three potential burrows with sign including cough pellets and/or whitewash were observed within the Project Site and one potential burrowing owl cough pellet was identified within the 500-foot survey buffer near the northeastern portion of the Project Site. With potential burrows and sign observed within the Project Site, impacts would be potentially significant. Implementation of Mitigation Measure BIO-6, which requires a Take Avoidance Survey to be conducted for burrowing owl prior to construction, would reduce impacts to less than significant.

Five active desert kit fox burrow/burrow complexes were identified within the Project Site during the desert tortoise and burrowing owl surveys. Due to the potential for active desert kit foxes to be identified within the Project Site, impacts would be potentially significant. In accordance with Mitigation Measure BIO-7, if any burrow/burrow complex is determined to house desert kit fox, and the burrow/burrow complex is unavoidable, exclusionary devices (i.e., one-way doors) would be fitted on the active burrow openings. Once the burrow is confirmed vacant, the burrow would be carefully excavated to prevent re-entry/re-use of the burrow. These exclusion/excavation activities would only occur during the non-breeding season (July 2 to January 15). If construction occurs during the breeding season, any active burrow/burrow complex that is unavoidable would be provided a 500-foot no work buffer until the end of breeding season (July 1) or until the burrow has been determined to be inactive (and does not contain pups) by a qualified biologist. Implementation of Mitigation Measure BIO-7 would reduce impacts to less than significant.

Beyond those mitigation measures discussed above, the Project would also implement Mitigation Measure BIO-3, which requires an environmental training to be developed and presented to all crew members prior to the beginning of all Project construction. The training would describe special-status wildlife species and sensitive habitats that could occur within Project work areas, protection afforded to these species and habitats, and avoidance and minimization measures required. With implementation of Mitigation Measures BIO-1, BIO-3, BIO-4, BIO-6, and BIO-7, impacts to sensitive species resulting from the Project would be less than significant.

Impact 4.3-(b): The Project could have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service. (Potentially Significant Impact.) (Draft EIR pgs. 4.3-16 to 4.3-17)

The Project has been designed to minimize impacts to sensitive resources; however, impacts to all waters are not able to be avoided. Drainages 5 and 6 are the largest washes on-site and the Project layout has been designed to avoid these drainages. The Project would also be required to implement erosion protection and sediment control BMPs in compliance with the General Construction General Permit and the SWPPP. Nonetheless, since impacts to other jurisdictional waters are not avoidable, the Project would implement Mitigation Measures BIO-8 through BIO-11 requiring habitat creation, enhancement, or preservation as determined by consultation with the regulatory agencies and the County during the permitting process. Any impacts to CDFW jurisdictional waters would require a 1602 Streambed Alteration Agreement from the CDFW. Since no Section 404 permit is required, Section 401 of the Clean Water Act (CWA) is not applicable; however, a Waste Discharge Report (WDR), or a waiver to WDRs, may be required by Regional Water Quality Control Board (RWQCB). A mitigation plan would be submitted for agency approval with each of the permit application packages. Although 24.66 acres of State waters would be impacted by the Project, acquisition of required permits and implementation of Mitigation Measures BIO-8 through BIO-11 would reduce impacts to less than significant.

# Impact 4.3-(d): The Project Would the Project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites. (Potentially Significant Impact.) (Draft EIR pgs. 4.3-17 to 4.3-18)

Of the 21 sensitive species identified in the database search, 9 sensitive wildlife species were considered absent from the Project Site, 6 have low potential to occur, and 7 have moderate potential to occur. Four species were considered Present on the Project Site. Project construction could temporarily interfere with the movement of native resident or migratory wildlife species for approximately 14 months, through the presence of workers on-site, equipment and vehicle travel, installation of fencing, and loud construction noise. To avoid impacts during construction Mitigation Measures BIO-3, BIO-5, BIO-6, BIO-7, and BIO-12 would be implemented. These mitigation measures require a biological monitor to be present to conduct pre-construction sweeps and species relocation, if necessary; an environmental training program to describe special-status wildlife species and sensitive habitats; a burrowing owl Take Avoidance Survey; and execution of a protocol for encountered desert kit fox burrows. Further, to avoid impediment or use of native wildlife survey sites Mitigation Measure BIO-4 would require vegetation trimming/crushing to take place outside the general bird breeding season (February 15 to September 15) to the maximum extent practical or nesting bird surveys would be required.

Additionally, two large washes present on the Project Site (Drainages 4 and 5) are wildlife corridors providing a migration pathway for small to large mammal species (e.g., black-tailed jackrabbits, desert kit fox, mule deer, and wild burro) from the surrounding areas including the Turtle Mountains and Whipple Mountains to water sources such as the Colorado River. In accordance with Mitigation Measure BIO-2, desert riparian vegetation would be avoided to the greatest extent possible within Drainage 4 (Vidal Wash) and Drainage Systems 5 and 6 to preserve habitat for wildlife movement.

With implementation of Mitigation Measures BIO-2 through BIO-7 and BIO-12, impacts to the movement of wildlife species or the use of native wildlife nursery sites would be reduced to less than significant.

## Impact 4.3-(e): The Project would conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance. (Potentially Significant Impact). (Draft EIR pgs. 4.3-18 to 4.3-19)

The Project Site is within the planning area of several adopted local plans, including the West Mojave Plan, the County Countywide Plan/Policy Plan, and the Desert Renewable Energy Conservation Plan (DRECP). However, the West Mojave Plan and the DRECP apply only to Bureau of Land Management (BLM)-administered lands and therefore do not apply to the Project. As such, the following analysis demonstrates Project consistency with the following relevant County goals and policies relating to the protection of biological resources.

With implementation of Mitigation Measures BIO-1 through BIO-7 and BIO-12, the Project would be consistent with the Renewable Energy and Conservation Element goals and policies to collaborate with appropriate federal and State agencies to facilitate mitigation/habitat conservation offsets on public lands where suitable habitat is available because the Project would not interfere with the County's programs to:

- Balance sustainable energy production with sound resource conservation;
- Apply standards to the design, siting, and operation of renewable energy facilities that protect special-status biological resources; and
- Select and design renewable energy sites to conserve habitat; avoid impacts to special-status habitats and wildlife corridors; and provide sanctuary for native bees, butterflies, and birds, where feasible and appropriate.

With implementation of Mitigation Measures BIO-1 through BIO-7 and BIO-12, the Project would be consistent with Development Code Section 88.01.060 to conserve specified desert plant species as the Project would not impact special-status plants. With implementation of Mitigation Measures BIO-1 through BIO-7 and BIO-12, impacts would be reduced to less than significant.

**Finding.** The County finds that changes or alterations have been required in, or incorporated into, the Project that substantially lessen significant impacts to special status species through loss of habitat as well as direct and indirect impacts to these species, as identified in the Final EIR. With implementation of Mitigation Measures BIO-1 through BIO-12, impacts would be reduced to less-than-significant levels.

**BIO-1** A biological monitor shall be present prior to initiation of ground disturbing activities to demark limit of disturbance boundaries. Flagging and/or staking shall be used to clearly define the work area boundaries and avoid impacts to sensitive plant species with the potential to occur near the proposed Project boundaries. The biological monitor will be present to conduct pre-construction sweeps and inspect compliance with project protection measures.
- **BIO-2** Desert riparian vegetation shall be avoided to the greatest extent possible within Drainage 4 (Vidal Wash) and Drainage Systems 5 and 6 to preserve habitat for the sensitive species with potential to nest and forage in these areas.
- **BIO-3** An environmental training program shall be developed and presented to all crew members prior to the beginning of all project construction. The training shall describe special-status wildlife species and sensitive habitats that could occur within project work areas, protection afforded to these species and habitats, and avoidance and minimization measures required to avoid and/or minimize impacts from the project. The training shall include a discussion on the reduction of trash and the elimination any food and standing water originating from a human source that may attract wildlife, including ravens, to the site. The training program will be approved by a qualified biologist. Records of training will be kept on-site.
- BIO-4 Vegetation trimming/crushing shall take place outside the general bird breeding season (February 15 to September 15), to the maximum extent practical. Regardless of the time of year, prior to ground-disturbing activities, a qualified biologist shall conduct a nesting bird survey to comply with CDFW Code 3503 and 3503.5 and the Migratory Bird Treaty Act. The survey shall occur no more than three (3) days prior to initiation of proposed project activities and shall include any potential nesting habitat (including trees, shrubs, the ground, or nearby structures). Any occupied passerine and/or raptor nests occurring within the proposed project area or the Project's zone of influence (generally 100-300 feet) shall be delineated and a no-disturbance buffer zone (as determined by the avian biologist) shall be established and maintained during Project activities. Additional follow-up surveys may be required by the resource agencies and the County of San Bernardino. The buffer zone shall be sufficient in size to prevent impacts to the nest. A qualified biologist shall monitor active nests to determine whether construction activities are disturbing nesting birds or nestlings. If a nest shows signs of disturbance as determined by a qualified biologist, adaptive management methods may be used to ensure that the buffer distances are effective, and no nests are disturbed. Once nesting has ceased and the fledglings are no longer using the nest area as confirmed by a qualified biologist, the buffer may be removed. A nesting bird survey report shall be provided to the County of San Bernardino and CDFW. If an active nest is encountered during construction, construction shall stop immediately until a qualified biologist can determine the status of the nest, avoidance buffer and when work can proceed without risking violation to State or federal laws.
- **BIO-5** If a sensitive species is found, the species shall be relocated out of harm's way according to the capture/relocation plan. Any mortalities shall be reported to the agencies and County of San Bernardino. A final monitoring report will be submitted to CDFW and County of San Bernardino. The annual report shall include a summary of pre-construction surveys, biological monitoring, avoidance measures implemented, and whether the avoidance measures were effective.
- **BIO-6** A Burrowing Owl Mitigation and Monitoring Plan shall be developed and submitted to CDFW for review 60 days prior to the start of ground disturbing activities. No less than 14 days prior to any ground disturbance activities, a burrowing owl (*Athene cunicularia*) Take Avoidance Survey shall be conducted by a qualified biologist in accordance with the California Department of Fish and Wildlife 2012 *Staff Report on Burrowing Owl Mitigation*. If burrowing owls are determined to be present where Project activities will occur, site-specific non-disturbance buffer zones shall be established by the qualified biologist based on monitoring and assessments of the Project's effects on the burrowing owls. If it is not possible to avoid active burrows during the nonbreeding

season, passive relocation shall be implemented once approved through coordination with CDFW.

- **BIO-7** A Desert Kit Fox Monitoring and Mitigation Plan shall be prepared and submitted to CDFW for review 60 days prior to the start of ground disturbing activities. Prior to commencing Project activities, a qualified biologist shall conduct a focused survey for desert kit fox (*Vulpes macrotis*), including assessment of all burrows in the Project area. If potential burrows are located, they shall be monitored by the qualified biologist. If any burrow/burrow complex is determined to house desert kit fox and the burrow/burrow complex is unavoidable, exclusionary devices (e.g., one-way doors) shall be fitted on the active burrow openings, and once the burrow has been confirmed vacant as determined by the qualified biologist and in consultation with CDFW, the burrow shall be carefully excavated to prevent re-entry/re-use of the burrow. These exclusion/excavation activities shall only occur during the non-breeding season (July 2- January 15). If construction will occur during the breeding season, any active burrow/burrow complex that is unavoidable shall be provided a 500-foot no work buffer until the end of breeding season (July 1) or until the burrow has been determined to be inactive (and does not contain pups) by the qualified biologist.
- **BIO-8** Temporary and permanent impacts to all jurisdictional resources shall be compensated through a combination of habitat creation (i.e., establishment), enhancement, preservation, and/or and restoration at a minimum of a 1:1 ratio or as required by the permitting agencies. Any creation, enhancement, preservation, and/or restoration effort shall be implemented pursuant to a Habitat Restoration Plan, which shall include success criteria and monitoring specifications, and shall be approved by the permitting agencies and County of San Bernardino. A habitat restoration specialist will be designated and approved by the permitting agencies and will determine the most appropriate method of restoration.
- **BIO-9** Temporarily impacted drainage features shall be recontoured to pre-construction conditions. Temporary impacts shall be restored sufficient to compensate for the impact to the satisfaction of the permitting agencies (depending on the location of the impact). If restoration of temporary impact areas is not possible to the satisfaction of the appropriate agency, the temporary impact shall be considered a permanent impact and compensated accordingly.
- **BIO-10** A biological monitor shall be present prior to initiation of ground disturbing activities to demark limit of disturbance boundaries. Flagging and/or staking will be used to clearly define the work area boundaries and avoid impacts to adjacent drainage features.
- **BIO-11** Graded areas shall be stabilized to promote infiltration and reduce run-off potential.
- **BIO-12** Pre-construction surveys for desert tortoise (*Gopherus agassizii*) shall be conducted by a qualified biologist no more than 30 days prior to construction activities. If desert tortoise are observed within the Project Site, the Applicant shall consult with CDFW and USFWS to determine compliance with State (CESA) and federal (FESA) law. Additionally, if desert tortoise are determined to be present, a Raven Management Plan shall be prepared, approved by CDFW and USFWS, and implemented to offset potential predatorial impacts to tortoises.

**Basis for Finding.** Mitigation Measure BIO-1 would be implemented to reduce potentially significant impacts on special-status plant species that could be present onsite prior to the commencement of Project construction. The implementation of Mitigation Measure BIO-1 would include demarking the limit of disturbance boundaries to define the work area boundaries and avoid impacts to sensitive plant species with

the potential to occur near the proposed Project boundaries. With the implementation of Mitigation Measure BIO-1, potential impacts on special status plant species would be reduced to less than significant.

Mitigation Measure BIO-2 would be implemented to avoid desert riparian vegetation within Drainage 4 (Vidal Wash) and Drainage Systems 5 and 6 to preserve habitat for the sensitive species with potential to nest and forage in these areas. With implementation of Mitigation Measure BIO-2, potential impacts to habitat for the sensitive species would be reduced to less than significant.

Mitigation Measure BIO-3 would be implemented to develop and present an environmental training program to all crew members prior to the beginning of all project construction. The training would be approved by a qualified biologist. With implementation of Mitigation Measure BIO-3, and in conjunction with the other mitigation measures below, potential impacts to special-status wildlife species and sensitive habitats would be reduced to less than significant.

Mitigation Measure BIO-4 would be implemented to the maximum extent practical to place vegetation trimming/crushing outside of the general bird breeding season. If that is not possible, prior to ground-disturbing activities, a qualified biologist shall conduct a nesting bird survey. With implementation of Mitigation Measure BIO-4, potential impacts to nesting birds would be reduced to less than significant.

Mitigation Measures BIO-5, BIO-6, BIO-7, and BIO-12 require a capture/relocation plan for sensitive species, take avoidance surveys for burrowing owls, preparation of a Desert Kit Fox Monitoring and Mitigation Plan, and pre-construction surveys for desert tortoise. These mitigation measures and subsequent plans would be completed in conjunction with a qualified biologist and in consultation with the CDFW and USFWS, as necessary and as dictated in the respective mitigation measure. With the implementation of Mitigation Measures BIO-5, BIO-6, BIO-7, and BIO-12, potential impacts on burrowing owls, desert kit fox, and desert tortoise would be reduced to less than significant.

Mitigation Measure BIO-8 and BIO-9 require that temporary and permanent impacts to jurisdictional resources be compensated through a combination of habitat creation, enhancement, prevention, and/or restoration, as well as recontouring temporarily impacted drainage features to pre-construction conditions. Temporary impacts shall be restored sufficient to compensate for the impact to the satisfaction of the permitting agencies. With implementation of Mitigation Measures BIO-8 and BIO-9, potential impacts on riparian habitat or other sensitive natural community would be reduced to less than significant.

Mitigation Measure BIO-10 requires that a biological monitor be present prior to initiation of ground disturbing activities to demark limit of disturbance boundaries. Mitigation Measure BIO-11 requires that graded areas shall be stabilized to promote inflation and reduce run-off potential. With implementation of Mitigation Measures BIO-10 and BIO-11, potential impacts on sensitive natural communities would be reduced to less than significant.

#### C. Cultural Resources

Impact 4.4-(a): The Project could cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5. (Potentially Significant Impact.) (Draft EIR pgs. 4.4-12 to 4.4-15)

## Impact 4.4-(b): The Project could cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5. (Potentially Significant Impact.) (Draft EIR pgs. 4.4-12 to 4.4-15)

During the field survey, Chambers Group personnel identified a total of 64 resources. These include 21 historic-period resources, 32 prehistoric resources, and 11 prehistoric isolates. The 11 isolated occurrences, by their singular nature, possess minimal information and are not considered eligible for inclusion on the National Register. The remaining 53 resources were identified as either historic or prehistoric sites and are not considered as eligible for listing in the National Register.

However, a potential remains for buried historic or archaeological resources to be unearthed during ground disturbing activities which may result in a potentially significant impact. Implementation of Mitigation Measure CUL-1, which would require worker awareness training to train construction workers to look for resources, and CUL-2, which would require an archaeologist be present on-site during all ground disturbing activities, would reduce impacts to any historical or archaeological resources to less than significant.

**<u>Finding.</u>** The County finds that changes or alterations have been required in, or incorporated into, the Project that substantially lessen significant impacts to cultural resources during construction as identified in the Final EIR. With the implementation of Mitigation Measures CUL-1 and CUL-2, potential impacts to cultural resources during construction would be reduced to less-than-significant levels.

**CUL-1** Prior to the initiation of ground-disturbing activities, the Project Applicant and construction manager shall conduct a Worker Education Awareness Program (WEAP) to alert field personnel to the possibility of buried prehistoric or historic cultural deposits. Development of the WEAP shall include consultation with a Qualified Archaeologist meeting the Secretary of the Interior standards and the Colorado River Indian Tribes. The WEAP shall provide an overview of potential significant archaeological resources that could be encountered during ground disturbing activities, including how to identify prehistoric or historic cultural deposits, to facilitate worker recognition, avoidance, and subsequent immediate notification to the Qualified Archaeologist. Prior to ground disturbing activities, the Project Applicant shall provide evidence to the San Bernardino County Land Use Services Department that construction personnel have conducted a WEAP. Documentation shall be retained demonstrating that construction personnel attended the training.

An archaeological monitor shall be present for all ground-disturbing activity conducted during Project implementation. In the event that cultural resources are discovered during Project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease, and a Qualified Archaeologist meeting the Secretary of the Interior standards shall be hired to assess the find. The Qualified Archaeologist shall have the authority to stop or divert construction excavation as necessary. Work on the other portions of the Project outside of the buffered area may continue during this assessment period. Additionally, the Colorado River Indian Tribes (as described in **Mitigation Measure TCR-1**) shall be contacted regarding any pre-contact and/or historic-era finds and be provided information after the Qualified Archaeologist makes their

initial assessment of the nature of the find, so as to provide Tribal input with regard to significance and treatment.

CUL-2 Prior to Project implementation and the start of ground-disturbing activities, a Monitoring and Treatment Plan (MTP) shall be created by a Qualified Archaeologist meeting the Secretary of the Interior standards in coordination with the Colorado River Indian Tribes and the County Planning Division that outlines process for identification and treatment of inadvertently discovered cultural resources. The MTP shall include requirements outlined in **Mitigation Measures CUL-1**, **TCR-1**, and **TCR-2** and be followed throughout the life of the Project.

**Basis for Finding.** Mitigation Measures CUL-1 and CUL-2 require a WEAP, hiring of a Qualified Archaeologist in the event of a find, and preparation of a monitoring and treatment plan if resources cannot be avoided. The mitigation measures provide procedures in the event that an archaeological resource is unearthed. With the implementation of Mitigation Measures CUL-1 and CUL-2, the Project would result in less than significant impacts to cultural resources.

#### D. Geology and Soils

## Impact 4.5-(b): The Project could result in substantial soil erosion of the loss of topsoil. (Potentially Significant Impact.) (Draft EIR pgs. 4.5-8 to 4.5-9)

Soil erosion may result during Project construction, as grading and construction can loosen surface soils and make soils susceptible to the effects of wind and water movement across the surface. However, all construction activities related to the Project would be subject to compliance with the CBC. Additionally, all development associated with the Project would be subject to compliance with the requirements set forth in the NPDES Storm Water General Construction Permit (Order No. 99- 08-DWQ) for construction activities. Compliance with the CBC and the NPDES would minimize effects from erosion and ensure consistency with Colorado River Regional Water Quality Control Board (CRRWQCB) requirements, which establish water quality standards for the groundwater and surface water of the region.

The Preliminary Geotechnical Report provides a review of the Project Site and the potential soil conditions at the time of the borings, and variations that were not initially detected in the preliminary boring program may result in potentially significant impacts from soil erosion. Therefore, additional recommendations to minimize the potential for erosion to occur during Project construction, including limiting certain construction activities to dry weather, covering exposed excavated dirt during periods of rain, and protecting excavated areas from flooding with temporary berms would be required to be implemented under Mitigation Measure GEO-1. With implementation of all required erosion and runoff control measures and Mitigation Measure GEO-1, erosion impacts resulting from Project construction would be reduced to less than significant.

Without the use of asphalt concrete or other hardened material to surface the Project's access roads, there is an increased potential for erosion and deep rutting of the roads to occur during Project operations. Although post construction traffic is anticipated to only consist of intermittent pickup trucks for operations and maintenance personnel, un-surfaced roadways will display varying levels of wear and deterioration over time. Thus, variations that were not initially detected in the preliminary boring program may result in potentially significant impacts from soil erosion. Therefore, additional recommendations such as a site inspection program, preventative maintenance activities to slow the rate of deterioration, and preservation of the roadway investment are recommended under Mitigation Measure GEO-1. With implementation of all

required erosion and runoff control measures and Mitigation Measure GEO-1, erosion impacts resulting from Project operation would be reduced to less than significant.

## Impact 4.5-(f): The Project could directly or indirectly destroy a unique paleontological resource or site or unique geological feature. (Potentially Significant Impact.) (Draft EIR pg. 4.5-9)

The Project Site itself is generally characterized by younger alluvium (Q) and older alluvium (Qoa) formation types which have low to high paleontological sensitivity. With disturbance of these soils, there is a potential for the Project to unearth unknown paleontological resources. However, the Project would implement the Countywide Plan Program EIR mitigation measures to address potential impacts to paleontological resources. With implementation of Mitigation Measure GEO-2, in areas of documented or inferred paleontological resource presence, the Project would require consultation with a qualified paleontologist. If any paleontological resources are discovered, Mitigation Measure GEO-3 would require proper avoidance of the area and proper handling and documentation of the resource. With implementation of Mitigation Measures GEO-2 and GEO-3, impacts would be reduced to less than significant.

**Finding.** The County finds that changes or alterations have been required in, or incorporated into, the Project that substantially lessen significant impacts to erosion and paleontological resources as identified in the Final EIR. With the implementation of Mitigation Measures GEO-1, GEO-2, and GEO-3, potential impacts to erosion and unknown paleontological resources during construction would be reduced to less than significant levels.

- **GEO-1** Prior to the issuance of grading permits, the Applicant shall retain a California registered and licensed engineer to design the Project facilities in agreement with geologic conditions identified at the Project site. A Final Geotechnical Report shall be produced to account for variations likely occur in the subgrade which were not detected in the preliminary boring program. All grading and construction on-site shall adhere to the specifications, procedures, and site conditions contained in the final design plans, which shall be fully compliant with the recommendations of the California-registered and licensed professional engineer and consistent with the recommendations in the Preliminary Geotechnical Engineering Report prepared by Terracon Consultants, Inc. in 2022.
- **GEO-2** In areas of documented or inferred paleontological resource presence, the Applicant shall require consultation with a qualified paleontologist meeting the standards of Society for Vertebrate Paleontology. The initial consultation may be provided by a qualified paleontologist on staff at the County Museum. The qualified paleontologist will determine the degree of paleontological resource sensitivity, as outlined below, and will recommend a paleontological resources monitoring and mitigation plan (PRMMP). This plan will address specifics of monitoring and mitigation for the development project, and will take into account updated geologic mapping, geotechnical data, updated paleontological records searches, and any changes to the regulatory framework. This PRMMP should usually meet the standards of the SVP (2010), unless the project is on BLM land or subject to federal jurisdiction, in which case the BLM standards should be used. The following provisions would be typical for units mapped with the different levels of paleontological sensitivity:
  - High (SVP)/Class 4–5 (BLM)—All projects involving ground disturbances in previously undisturbed areas sediments mapped as having high paleontological sensitivity will be monitored by a qualified paleontological monitor (BLM, 2009; SVP, 2010) on a full-time basis under the supervision of the Qualified Paleontologist. Undisturbed sediments may be

present at the surface, or present in the subsurface, beneath earlier developments. This monitoring will include inspection of exposed sedimentary units during active excavations within sensitive geologic sediments. The monitor will have authority to temporarily divert activity away from exposed fossils to evaluate the significance of the find and, should the fossils be determined to be significant, professionally and efficiently recover the fossil specimens and collect associated data. Paleontological monitors will use field data forms to record pertinent location and geologic data, will measure stratigraphic sections (if applicable), and collect appropriate sediment samples from any fossil localities.

- Low to High (SVP)/Class 2 to Class 4–5 (BLM)—All projects involving ground disturbance in previously undisturbed areas mapped with low-to-high paleontological sensitivity will only require monitoring if construction activity will exceed the depth of the low sensitivity surficial sediments. The underlying sediments may have high paleontological sensitivity, and therefore work in those units might require paleontological monitoring, as designated by the Qualified Paleontologist in the PRMMP. When determining the depth at which the transition to high sensitivity occurs and monitoring becomes necessary, the Qualified Paleontologist should take into account: a) the most recent local geologic mapping, b) depths at which fossils have been found in the vicinity of the project area, as revealed by the museum records search, and c) geotechnical studies of the project area, if available.
- Low (SVP)/Class 2–3 (BLM)—All projects involving ground disturbance in previously undisturbed areas mapped as having low paleontological sensitivity should incorporate worker training to make construction workers aware that while paleontological sensitivity is low, fossils might still be encountered. The Qualified Paleontologist should oversee this training as well as remain on-call in the event fossils are found. Paleontological monitoring is usually not required for sediments with low (Low / Class 2--3) paleontological sensitivity.
- None (SVP)/Class 1 (BLM)—Projects determined by the Qualified Paleontologist to involve ground-disturbing activities in areas mapped as having no paleontological sensitivity (i.e., plutonic igneous or high-grade metamorphic rocks) will not require further paleontological mitigation measures.
- **GEO-3** In the event of any fossil discovery, regardless of depth or geologic formation, construction work will halt within a 50-ft. radius of the find until its significance can be determined by a Qualified Paleontologist. Significant fossils will be recovered, prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and deposited in a designated paleontological curation facility in accordance with the standards of the SVP (2010) and BLM (2009). A repository will be identified and a curatorial arrangement will be signed prior to collection of the fossils. Although the San Bernardino County Museum is specified as the repository for fossils found in the county in the current General Plan, the museum may not always be available as a repository. Therefore, any accredited institution may serve as a repository.

**Basis for Finding.** Mitigation Measure GEO-1 requires the Applicant to retain a California registered and licensed engineer to design the Project facilities in agreement with geologic conditions identified at the Project site. A Final Geotechnical Report shall include grading and construction specifications, procedures, and site conditions. Mitigation Measures GEO-2 and GEO-3 require a paleontological resources monitoring and mitigation plan to address specifics of monitoring and mitigation for the project, as well as a recovery and curation plan for any discovered fossils. With implementation of Mitigation Measures GEO-1 through GEO-3, the Project would result in less than significant impacts to erosion and paleontological resources.

#### E. Tribal Cultural Resources

Impact 4.10-(a): The Project could be developed in an area listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code §5020.1(k). (Potentially Significant Impact.) (Draft EIR pgs. 4.10-7 to 4.10-8)

Impact 4.10-(b): The Project could contain a resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code §5024.1. In applying the criteria set forth in subdivision (c) of Public Resources Code §5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe. (Potentially Significant Impact.) (Draft EIR pgs. 4.10-7 to 4.10-8)

As a result of the County's consultation efforts and other archival research, the Project Site is no known tribal cultural resources or tribal cultural places have been identified within the Project Site or immediate vicinity. Therefore, the Project would result in no impacts to tribal cultural resources. Nonetheless, the potential exists that there may be undiscovered tribal cultural resources that could be unearthed during ground-disturbing activities during Project construction. Therefore, as there is potential for ground-disturbing activities to encounter buried or unknown tribal cultural resources, impacts would be considered potentially significant. The Project would be required to implement Mitigation Measures TCR-1 and TCR-2 to reduce potential impacts to tribal cultural resources to a less than significant levels.

**Finding.** The County finds that changes or alterations have been required in, or incorporated into, the Project that substantially lessen significant tribal cultural resources impacts as identified in the Final EIR. With the implementation of Mitigation Measures TCR-1 and TCR-2, potential impacts to tribal cultural resources would be reduced to less than significant levels.

**TCR-1:** A Native American monitor representing the Colorado River Indian Tribes shall be present for all ground-disturbing activity conducted during Project implementation. As detailed in Mitigation Measure CUL-1, the Colorado River Indian Tribes shall be contacted if any pre-contact and/or historic-era cultural resources are discovered during Project implementation and be provided information regarding the nature of the find so as to provide Tribal input with regards to significance and treatment. The Native American monitor shall follow the processes outlined in the Monitoring and Treatment Plan (MTP) drafted by a Qualified Archaeologist in coordination with the Colorado River Indian Tribes and County Planning Division, as required in **Mitigation Measure CUL-2**.

If a pre-contact cultural resource is discovered during Project implementation, the following actions are required:

- (a) Ground-disturbing activities shall be suspended 60 feet around the resource(s), and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed;
- (b) The Applicant shall develop a research design that shall include a plan to evaluate the resource for significance under CEQA criteria, and the County and the Colorado River Indian Tribes shall review to indicate concurrence. Representatives from the Colorado River Indian Tribes, the Applicant, and the County shall confer regarding the research design, as well as any testing efforts needed to delineate the resource boundary. Following the completion of evaluation efforts, all parties shall confer regarding the

resource's archaeological significance, its potential as a Tribal Cultural Resource (TCR), and avoidance (or other appropriate treatment) of the discovered resource.

Should any significant resource and/or TCR not be a candidate for avoidance or preservation in place, and the removal of the resource(s) is necessary to mitigate impacts, the research design shall include a comprehensive discussion of sampling strategies, resource processing, analysis, and reporting protocols/obligations. Removal of any cultural resource(s) shall be conducted with the presence of a Tribal monitor representing the Colorado River Indian Tribes unless otherwise decided by the Colorado River Indian Tribes. All plans for analysis shall be reviewed and approved by the Applicant and the Colorado River Indian Tribes prior to implementation, and all removed material shall be temporarily curated on-site. The Colorado River Indian Tribes shall indicate if it is the preference of the Colorado River Indian Tribes that removed cultural material be reburied as close to the original find location as possible. However, should reburial within/near the original find location during Project implementation not be feasible, then a reburial location for future reburial shall be decided upon by the Colorado River Indian Tribes, the landowner, and the County, and all finds shall be reburied within this location. Additionally, in this case, reburial shall not occur until all ground-disturbing activities associated with the Project have been completed, all monitoring has ceased, all cataloging and basic recordation of cultural resources have been completed, and a final monitoring report has been issued to the County, CHRIS, and the Colorado River Indian Tribes. All reburials are subject to a reburial agreement that shall be developed between the landowner and the Colorado River Indian Tribes outlining the determined reburial process/location and shall include measures and provisions to protect the reburial area from any future impacts (vis a vis project plans, conservation/preservation easements, etc.).

Should it occur that avoidance, preservation in place, and on-site reburial are not an option for treatment, the landowner shall relinquish all ownership and rights to his material and confer with the Colorado River Indian Tribes to identify an American Association of Museums (AAM)-accredited facility within the County that can accession the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an appropriately qualified repository shall be developed between the landowner and museum that legally and physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the Applicant's obligation to pay for those fees.

All draft records/reports containing the significance and treatment findings and data recovery results shall be prepared by the archaeologist and submitted to the County and the Colorado River Indian Tribes for their review and comment. After approval from all parties, the final reports and site/isolate records are to be submitted to the local CHRIS Information Center, the County, and the Colorado River Indian Tribes.

**TCR-2** Any and all archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the Applicant, County, and Colorado River Indian Tribes. The County and/or Applicant shall, in good faith, consult with the Colorado River Indian Tribes throughout the life of the Project.

**Basis for Finding.** Mitigation Measures TCR-1 and TCR-2 require contacting the applicable Indian Tribe in the event of inadvertent discovery, suspending construction, and preparing a research design plan; and supplying

all documents to the tribe, along with consultation through the life of the Project. The mitigation measures provide procedures in the event that a tribal cultural resource is unearthed. With the implementation of Mitigation Measures TCR-1 and TCR-2, the Project would result in less than significant impacts to tribal cultural resources.

#### Section 5. Other CEQA Considerations

#### **Growth Inducing Impacts**

CEQA Guidelines Section 15126.2(e) requires that an EIR "discuss the ways in which the Project could foster economic or population growth, or the construction of additional housing, either directly or indirectly, in the surrounding environment." Please refer to Section 6.2 of the Draft EIR for an analysis of the potential growth-inducing impacts of the Project.

Growth-inducing impacts fall into two general categories: direct and indirect. Direct growth-inducing impacts are generally associated with providing urban services to an undeveloped area. Indirect, or secondary growth-inducing impacts, consist of growth induced in the region by additional demands for housing, goods, and services associated with the population increase caused by, or attracted to, a new project.

Growth inducement can be a result of new development that requires an increase in employment levels, removes barriers to development, or provides resources that lead to secondary growth. With respect to employment, construction workers would be working in the area temporarily and are not expected to relocate to the area with their families. It is anticipated that the construction workforce would commute to the Project Site each day from local communities, and the majority would likely come from the existing labor pool as construction workers travel from site to site as needed. Construction staff not drawn from the local labor pool would stay in any of the local hotels in Vidal or other local communities. Temporary construction workers are not expected to generate a demand for services that would require an extension of infrastructure into areas that have not previously been served by public facilities (e.g., new water mains, sewer mains, or roadways).

Also, the Project would not induce substantial unplanned population growth in the Project area, either directly or indirectly. The Project would not include the extension of utility infrastructure or construction of new roadways other than that for the Project itself, that could induce development in the area. The Project would assist California in meeting its air quality and greenhouse gas (GHG) emissions reduction goals. As such, the Project would not directly induce growth related to provision of additional electric power.

Although the Project would contribute to the energy supply, which supports growth, the development of power infrastructure is a response to increased market demand. Rather, energy demand, as determined by the California Public Utilities Commission with input from the California Energy Commission (CEC), drives generation procurement. Procurement does not drive an increase in either utility customers or energy consumption. It does not induce new growth. San Bernardino County (County) planning documents already permit and anticipate a certain level of growth in the area of the Project and in the State as a whole, along with attendant growth in energy demand. It is this anticipated growth that drives energy-production projects, not vice versa. The Project would supply energy to accommodate and support existing demand and projected growth, but it would not foster any new growth. Therefore, any link between the Project and growth in the County would be speculative.

Based upon these considerations, the Project will not result in significant growth-inducing impacts.

#### Significant and Irreversible Environmental Changes

CEQA Guidelines Section 15126.2(c) defines an irreversible impact as an impact that uses nonrenewable resources during the initial and continued phases of the Project. Irreversible impacts can also result from damage caused by environmental accidents associated with the Project. Irretrievable commitments of resources should be evaluated to ensure that such consumption is justified.

Project buildout would commit nonrenewable resources during Project construction and operation. During Project construction, nonrenewable resources such as oil, gas, and other fossil fuels would be consumed, primarily in the form of production of Project facilities and transportation fuel for construction workers.

The Project would operate a solar energy facility that would generate 160 megawatts (MW) of renewable energy. Solar energy generation is considered a renewable process because its source is the almost unlimited amount of energy from the sun itself. However, the Project would generate minimal periodic operational vehicle trips internal to the Project Site for required maintenance activities, 40 trips per year for solar panel washing, and may require materials for replacement parts/repairs over the course of facility operations. Therefore, an irreversible commitment of nonrenewable resources would occur as a result of short-term Project construction and long-term Project operations. However, assuming that those commitments occur in accordance with the adopted goals, policies, and implementation measures of the San Bernardino Countywide Plan/Policy Plan, as a matter of public policy, those commitments have been determined to be acceptable. The San Bernardino County Countywide Plan/Policy Plan ensures that any irreversible environmental changes associated with those commitments will be minimized. Furthermore, the Project will provide a new source of renewable energy that would reduce the need for future consumption of nonrenewable fossil fuels for energy use.

At the end of the Project's operation term, the Applicant may determine that the Project should be decommissioned and deconstructed. Should the Project be decommissioned, the Project Applicant is required to restore land to its pre-Project state. Consequently, some of the resources on the Project Site could potentially be retrieved after the Project Site has been decommissioned. Concrete footings, foundations, and pads would be removed and recycled at an off-site location. All remaining components would be removed, and all disturbed areas would be reclaimed and recontoured. The Applicant anticipates using the best available recycling measures at the time of decommissioning.

#### Section 6. Evaluation of Alternatives

In accordance with CEQA Guidelines Section 15126.6(a), an EIR shall describe a range of reasonable alternatives to the project or to the location of the project that could feasibly avoid or lessen any significant environmental impacts of the project while attaining most of the project's basic objectives and evaluate the comparative merits of the alternatives. The Project's objectives are provided above in Section 2.8, *Project Objectives*. CEQA Guidelines Section 15126.6(b) states that the selection of project alternatives "shall focus on alternatives to the project or its location which are capable of avoiding or substantially lessening any significant effects of the project, even if these alternatives would impede to some degree the attainment of the project objectives or would be more costly." As described in CEQA Guidelines Section 15126.6(f)(1), among the factors that may be taken into account when addressing the feasibility of alternatives are environmental impacts, site suitability, economic viability, social and political acceptability, technological capacity, availability of infrastructure, Countywide Plan consistency, specific plan consistency, regulatory limitations, jurisdictional boundaries, and whether the project proponent could reasonably acquire, control,

or otherwise have access to an alternative site. If an alternative has effects that cannot be reasonably identified, if its implementation is remote or speculative, or if it would not achieve the basic project objectives, it need not be considered in the EIR.

The environmental impact analysis revealed that all potentially significant impacts could be mitigated to less than significant impacts with implementation of feasible mitigation measures. Thus, the Project would not result in any significant and unavoidable impacts. Based on the significant environmental impacts of the Project, the aforementioned objectives established for the Project, and the feasibility of the alternatives considered, three alternatives, including the No Project Alternative as required by CEQA, are considered in the EIR.

CEQA Guidelines Section 15126.6(e)(2) indicates that an analysis of alternatives to a proposed project shall identify an environmentally superior alternative among the alternatives evaluated in an EIR, and that if the "no project" alternative is the environmentally superior alternative, the EIR shall identify another environmentally superior alternative among the remaining alternatives. In general, the environmentally superior alternative is the alternative with the least adverse impacts on the environment.

No significant and unavoidable impacts were identified. Therefore, based on the objectives established for the Project (set forth above), the following alternatives were evaluated:

- 1. No Project Alternative
- 2. Reduced Acreage Alternative
- 3. Offsite Alternative

The impacts of each alternative evaluated in detail in the Draft EIR are compared to the Project's impacts in Draft EIR Chapter 5.0, *Alternatives*, with a summary of comparative impacts provided in Draft EIR Table 5-3.

The County finds that a good faith effort was made to evaluate all feasible alternatives in the EIR that are reasonable alternatives to the Project and could feasibly obtain the basic objectives of the Project, even if alternatives might impede attainment of the Project objectives or be more costly. As a result, the scope of alternatives analyzed in the Final EIR is not unduly limited or narrow. The County also finds that all reasonable alternatives were reviewed, analyzed, and discussed in the review process of the EIR and the ultimate decision on the Project.

#### Project Objectives

In identifying potentially feasible alternatives to the Project, the following Project objectives were considered:

- 1. Utilize property within the County to site PV solar power-generating facilities and energy storage near existing utility infrastructure.
- Support California's efforts to reduce GHG emissions consistent with the timeline established by the California Global Warming Solutions Act under California Assembly Bill 32, which requires that Statewide GHG emissions are reduced to at least 40 percent below the Statewide GHG emissions limit by 2030.

- 3. Support California's aggressive Renewables Portfolio Standard (RPS) Program consistent with the timeline established by Senate Bill 100, which requires that by December 31, 2030, 60 percent of all electricity sold in the State shall be generated from renewable energy sources.
- 4. Develop an economically feasible and commercially financeable power-generating facility and energy storage system.
- 5. Provide solar-generated electricity to the California Independent System Operator (CAISO) grid and WAPA.
- 6. Promote the County's role as the State's leading producer of renewable energy.
- 7. Provide green jobs to the County and the state of California.
- 8. Site and design the Project in an environmentally responsible manner consistent with current County guidelines.

#### 6.1 Alternatives Considered and Rejected

According to CEQA Guidelines Section 15126.6(c), alternatives may be eliminated from detailed consideration in an EIR if they fail to meet most of the Project objectives, are infeasible, or do not avoid or substantially reduce any significant environmental effects. Alternatives that are remote or speculative, or the effects of which cannot be reasonably predicted, also do not need to be considered (CEQA Guidelines Section 15126(f)(2)). Though the Project would not result in any significant and unavoidable impacts, the County considered several alternatives that could reduce potential impacts associated with Project implementation. Alternatives initially considered but eliminated from further consideration in this EIR because they do not meet any Project objectives or were infeasible. These alternatives that were considered but rejected after initial analysis include a wind energy project alternative and industrial power plant alternative.

As identified in PRC Section 21081(a)(3) and CEQA Guidelines Section 15091(a)(3), findings are required only for "alternatives identified in the environmental impact report." Alternatives that are not reviewed in detail in the EIR because they have been determined to be infeasible need not be discussed in the findings. Therefore, findings are not provided for alternatives considered in the Draft EIR and rejected from detailed analysis.

#### 6.2 Alternatives Analyzed in the EIR

#### 6.2.1 Alternative 1: No Project Alternative

Pursuant to CEQA Guidelines Section 15126.6(e)(3)(B), the No Project Alternative consists of the circumstance under which the Project would not proceed. The No Project Alternative assumes that no new development would occur within the Project Site. Accordingly, Alternative 1, the No Project Alternative, assumes that development of a utility scale solar PV electricity generation and energy storage facility would not occur. The No Project Alternative would not require County approval of CUPs and would result in no change in land use classifications for the Project Site. Existing land uses on the Project Site would remain in the current condition, which consist mostly of vacant, previously disturbed land, scattered structures associated with an abandoned rural residence, garage (storage) areas, and several WAPA towers. No physical changes would be made to the Project Site.

**Finding.** The County finds that the No Project Alternative is infeasible because, although it is environmentally superior to the Project, it would not meet any of the Project Objectives and would not provide any of the benefits associated with the Project, and thus rejects this alternative.

**Basis for Finding.** The baseline environmental conditions on the Project Site would remain under the No Project Alternative. The No Project Alternative would have fewer impacts on most environmental resources as compared to the Project because no construction would occur, and the Project Site would remain in its current condition. Compared to the Project, this alternative would underutilize land that could be developed into an economically feasible and commercially financeable power-generating facility and energy storage system. The No Project Alternative would not fulfill any of the Project Objectives for meeting renewable energy generation goals, siting a solar facility in near existing utility infrastructure, providing green jobs to the County and State, and helping local energy companies in fulfilling local renewable energy procurement goals.

#### 6.2.2 Alternative 2: Reduced Acreage Alternative

Under the Reduced Acreage Alternative, the Project Site would be reduced by approximately 177 acres, or approximately 18 percent. The Reduced Acreage Alternative footprint was established by first excluding all jurisdictional waters (i.e., Waters of the State and Waters of the U.S.), expanding the boundaries to cover additional nearby cultural resources, and finally excluding any areas rendered un-developable (e.g., islanded, insufficient space, etc.). Construction of Project facilities would be restricted from the "Excluded Areas" shown in Figure 5-1 of the Draft EIR, *Reduced Acreage Alternative*.

Under the Reduced Acreage Alternative, Project energy generation production would be diminished by approximately 25 percent, or 40 MW-AC, because a reduced number of PV panels would be installed due to reduced developable area and sub-optimal layout and siting options. Project renewable energy output would be reduced from 160 MW-AC to approximately 120 MW-AC (25 percent reduction). The proposed substation would also be relocated and access and maintenance road layout and placement would be revised. The proposed BESS system can be charged from both the proposed PV panels and the electrical grid. Therefore, no reduction in BESS capacity is anticipated.

**Finding.** The County finds that the Reduced Acreage Alternative would generally meet the Project objectives, but five important objectives would be met to a lesser extent than the Project while resulting in mostly similar or only slightly reduced impacts that are already less than significant or reduced to less-than-significant with the Project, and thus rejects this alternative.

**Basis for Finding.** The Reduced Acreage Alternative is the environmentally superior alternative because it would incrementally reduce certain impacts associated with the Project due to the reduced footprint (e.g., air quality, biological resources, cultural resources, and GHG emissions). However, the Project would not result in any significant and unavoidable impacts, so environmental impacts would be less than significant for all resource areas under either the Project or Alternative 2. Further, Alternative 2 would not realize certain environmental benefits and would not meet the Project objectives to the same extent as the Project. Alternative 2 would also contribute less than the Project in assisting California reach its renewable energy generation goals under SB 100. Alternative 2 would attain most of the Project Objectives, although it would not do so to the same extent as the Project.

The Reduced Acreage Alternative would meet the objectives of minimizing environmental impacts by siting a facility on disturbed lands and developing in proximity of existing utility scale solar generating facilities. But compared to the Project, this alternative would underutilize land that has been planned for a solar energy facility, within an existing fenced area surrounded by similar renewable energy development.

Overall, the Reduced Acreage Alternative would meet the eight Project Objectives, but five of the objectives would only be partially met compared to the Project.

#### 6.2.3 Alternative 3: Offsite Alternative

Alternative 3 includes the use of approximately 1,100 acres on BLM administered land, located outside of the City of Blythe and entirely within the County of Riverside. Given the land area, this Alternative could allow for development of a utility-scale renewable energy facility with similar generation and storage capacity as the Project. The Alternative 3 site is designated as a Development Focus Area (DFA) for renewable energy in the DRECP. A 3.55-mile gen-tie line would travel south along Neighbors Boulevard to 6<sup>th</sup> Avenue, and then east to the Defrain Substation. Palo Verde College is located north of 6<sup>th</sup> Avenue and Rancho Ventana RV Resort and Blythe Municipal Golf Course are located approximately one mile southeast from the Offsite Alternative. Additionally, at least two farms / farm worker houses are located within or on the boundaries of this alternative location. Figure 5-2 of the Draft EIR shows the proposed Offsite Alternative location, and approximate gen-tie line route.

The Offsite Alternative would include the development of a utility scale solar and energy storage facility within a previously undisturbed desert area. There are two farms immediately adjacent to the Offsite Alternative site. Similar to the Project, the Offsite Alternative would replace views of the open desert with views of a utility scale solar and energy storage facility. In addition to the renewable energy facility, a gen-tie line would travel south along Neighbors Boulevard, and east along 6<sup>th</sup> Avenue to connect to the Defrain Substation.

The Offsite Alternative is within the planning area of several adopted local plans, including the DRECP. The Offsite Alternative would be located in an area designated by the BLM as a DFA in the BLM adopted DRECP. The BLM has identified DFAs for renewable energy projects as a way to concentrate large utility scale renewable energy projects in areas that are outside of the California Desert Conservation Area Plan Boundary. Offsite Alternative location has a high occurrence of Burrowing Owls and has had an occurrence of a Mountain Plover. Additionally, this Offsite Alternative location does feature some Riverine features near the northeastern portion of the Offsite Alternative site, and would result in approximately 2.20 acres of impacts to riverine habitat.

This Alternative would require construction of a new gen-tie to transmit the power generated from the facility. A 3.55 mile gen-tie would travel south along Neighbors Boulevard to 6<sup>th</sup> Avenue and then east of the Defrain Substation.

**Finding.** The County finds that Alternative 3 is infeasible because it fails to meet important Project objectives, would result in greater impacts for most environmental resource areas as compared to the Project, and would require additional approvals by other agencies, and thus rejects this alternative.

**Basis for Finding.** Implementation of the Offsite Alternative would result in similar impacts on all environmental resources areas, except for aesthetics, hazards and hazardous materials, and noise, for which the Offsite Alternative would have greater impacts compared to the Project. This Alternative would meet some of the Project Objectives and is located within DRECP DFAs that are recommended for renewable energy projects. The Offsite Alternative would not meet the objectives of utilizing property within the County and would not promote the County's role as the State's leading producer of renewable energy. The Offsite Alternative would

also not meet the objective to site and design the Project in an environmentally responsible manner consistent with current County guidelines.

This Alternative would, to a lesser extent than the Project, meet the Project Objective of providing green jobs to the County and the State. The Offsite Alternative would meet the remainder of the Project objectives. Due to physical site constraints, increased mitigation requirements, increased construction costs, and the absence of land control this alternative is less economically feasible than the Project when considering the additional expenses. Additionally, this Alternative has additional expenses for infrastructure costs associated with O&M compared to the Project which will share existing O&M facilities. Additionally, this Alternative would require a BLM right-of-way grant for development, and County approval for development of an overhead gen-tie line. These additional processes could substantially increase the cost and length of time required for permitting this Alternative. Overall, the Offsite Alternative would meet some, but not all of the Project objectives.

#### 6.2.4 Environmentally Superior Alternative

CEQA Guidelines Section 15126.6(e)(2) requires the designation of an environmentally superior alternative to the Project and, if the environmentally superior alternative is the No Project Alternative, selection of an environmentally superior alternative from among the remaining alternatives.

The No Project Alternative is the environmentally superior alternative. However, in accordance with CEQA Guidelines Section 15126.6(e)(2), a secondary alternative must be chosen since the No Project Alternative is environmentally superior.

Alternative 2, the Reduced Acreage Alternative, is conservatively considered as the environmentally superior alternative, because it would incrementally reduce certain impacts associated with the Project due to the reduced footprint (e.g., air quality, biological resources, cultural resources, and GHG emissions) and not result in any significant and unavoidable impacts. As such, environmental impacts would be less than significant for all resource areas under either the Project or Alternative 2. Further, Alternative 2 would not realize certain environmental benefits and would not meet the Project objectives to the same extent as the Project. Alternative 2 would leave undeveloped underutilized land that has been planned for a solar energy facility, within an existing fenced area surrounded by similar renewable energy development. Alternative 2 would also contribute less than the Project in assisting California reach its renewable energy generation goals under SB 100. Alternative 2 would attain most of the Project Objectives, although it would not do so to the same extent as the Project.

#### Section 7. Findings Regarding the Final EIR

Chapter 2.0, *Comment Letters and Responses to Comments,* of the Final EIR provides the comments received during the public review period on the Draft EIR, as well as the County's responses to these comments. The focus of the responses to comments is on the disposition of significant environmental issues as raised in the comments, as specified by CEQA Guidelines Section 15088(c). The County provided a written proposed response to each public agency on comments made by that public agency pursuant to CEQA Guidelines Section 15088(b).

The purpose of the Final EIR is to respond to all comments received by the County regarding the environmental information and analyses contained in the Draft EIR. Chapter 3.0, *Corrections and Additions to the EIR*, of the Final EIR includes any clarifications/corrections to the text of the EIR generated either from

responses to comments or independently by the County. The County finds that comments made on the Draft EIR, the responses to these comments, and revisions to the EIR clarify or update the analysis presented in the document but do not change the analysis or conclusions of the EIR. Accordingly, no significant new information, as described in CEQA Guidelines Section 15088.5, was added to the EIR after the Draft EIR were made available for public review.

The comments, responses to comments, and the clarifications to the EIR do not trigger the need to recirculate the EIR pursuant to CEQA Guidelines Section 15088.5. These changes merely clarify or update the discussion but do not change the analysis or conclusions of the EIR. Based on the analysis in the Draft EIR, the comments received, and the responses to these comments, no substantial new environmental issues have been raised that have not been adequately addressed in the EIR. Also, no changes to the analysis or conclusions of the EIR are necessary based on the comments, the responses to the comments, and the revisions to the EIR.

# Section 8. Findings Regarding the Mitigation Monitoring and Reporting Program

PRC Section 21081.6 requires that when a public agency is making the finding required by PRC Section 21081(a)(1), the public agency shall adopt a reporting or monitoring program for the changes made to the Project or conditions of Project approval adopted in order to mitigate or avoid significant effects on the environment.

The mitigation measures in the MMRP would serve to avoid or reduce environmental impacts associated with implementation of the Project to less than significant levels, as supported by substantial evidence in the Record of Proceedings for the Project. The MMRP ensures implementation of the mitigation measures and provides the following information: (1) the full text of the mitigation measure and the impact statement(s) to which it applies; (2) the timing/phase of the Project during which the measure would be implemented; (3) the agency responsible for monitoring implementation of the mitigation measure; and (4) the procedure to demonstrate implementation and compliance of the mitigation measure. Thus, the County hereby finds that the MMRP meets the requirements of PRC Section 21081.6.

## **EXHIBIT D**

# Mitigation Monitoring and Reporting Program

Mitigation Monitoring and Reporting Program Environmental Impact Report CDH Vidal LLC (CORE) – Vidal Energy Project

Prepared by:



County of San Bernardino, Land Use Services Department

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### DECEMBER 2023

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# 1 Introduction

The California Environmental Quality Act (CEQA) requires that a public agency adopting an Environmental Impact Report (EIR) take affirmative steps to determine that approved mitigation measures are implemented after project approval. The lead or responsible agency must adopt a reporting and monitoring program for the mitigation measures incorporated into a project or included as conditions of approval. The program must be designed to ensure compliance with the EIR during project implementation (California Public Resources Code, Section 21081.6(a)(1)).

This Mitigation Monitoring and Reporting Program (MMRP) will be used by the County of San Bernardino (County) to ensure compliance with adopted mitigation measures identified in the EIR for the proposed Vidal Energy Project when construction begins. The County, as the lead agency, will be responsible for ensuring that all mitigation measures are carried out. Implementation of the mitigation measures would reduce impacts to below a level of significance for air quality, biological resources, cultural resources, geology and soils, and tribal cultural resources.

The remainder of this MMRP consists of a table that identifies the mitigation measures by resource for each project component. Table 1 identifies the mitigation monitoring and reporting requirements, list of mitigation measures, party responsible for implementing mitigation measures, timing for implementation of mitigation measures, agency responsible for monitoring of implementation, and date of completion. With the EIR and related documents, this MMRP will be kept on file at the following location:

County of San Bernardino 385 N. Arrowhead Avenue, First Floor San Bernardino, California 92415



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## 2 Mitigation Monitoring and Reporting Program Table

#### Table 1 Mitigation Monitoring and Reporting Program

Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
Air Quality				
<ul> <li>AQ-1 Valley Fever Management Plan. Prior to ground disturbance activities, the Applicant must prepare a Valley Fever Management Plan (VFMP), including a Valley Fever training program, to be implemented during construction to address potential risks from CI by minimizing the potential for unsafe dust exposure during construction. The VFMP will identify best management practices including:</li> <li>Development of an educational Valley Fever Training Handout for distribution to onsite workers, which should include general information about the causes, symptoms, and treatment instructions regarding Valley Fever, including contact information of local health departments and clinics knowledgeable about Valley Fever.</li> <li>Conducting Valley Fever training sessions to educate all Project construction workers regarding appropriate dust management and safety procedures, symptoms of Valley Fever, testing, and treatment options. This training must be completed by all workers and visitors (expected to be on-site for more than 2 days) prior to participating in or working in proximity to any ground disturbing activities. Signed documentation of successful completion of the training is to be kept on-site for the duration of construction.</li> <li>Developing a job-specific Job Hazard Analyses (JHA), in accordance with Cal/OSHA regulations, to analyze the risk of worker exposure to dust, and maintain and manage safety supplies identified by the JHA.</li> <li>Provide and/or require, if determined to be needed based on the applicable JHA, OSHA-approved half-face respirators equipped with a minimum N-95 protection factor for use during worker collocation with surface disturbance activities, further were the for the during over collocation with surface disturbance activities, further and so the provide activities.</li> </ul>	Prior to ground disturbance and during construction	Project Applicant	San Bernardino County	
of respirators.				



Mitigation Massure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/
				Notes
Biological Resources				
<b>BIO-1 Preconstruction Monitoring.</b> A biological monitor shall be present prior to	Prior to ground	Project Applicant and	San Bernardino	
initiation of ground disturbing activities to demark limit of disturbance boundaries.	disturbing	their construction	County	
Flagging and/or staking shall be used to clearly define the work area boundaries and	activities	contractor –		
avoid impacts to sensitive plant species with the potential to occur near the proposed		Monitoring to be		
Project boundaries. The biological monitor will be present to conduct pre-construction		undertaken by a		
sweeps and inspect compliance with project protection measures.		Qualified Biologist		
<b>BIO-2 Habitat Preservation.</b> Desert riparian vegetation shall be avoided to the greatest	During	Project Applicant and	San Bernardino	
extent possible within Drainage 4 (Vidal Wash) and Drainage Systems 5 and 6 to	construction	their construction	County	
preserve habitat for the sensitive species with potential to nest and forage in these		contractor – Survey		
areas.		to be completed by a		
		Qualified Biologist		
BIO-3 Pre-Construction Training. An environmental training program shall be	Prior to and	Project Applicant and	San Bernardino	
developed and presented to all crew members prior to the beginning of all project	during	their construction	County	
construction. The training shall describe special-status wildlife species and sensitive	construction	contractor – Training		
habitats that could occur within project work areas, protection afforded to these		to be undertaken by a		
species and habitats, and avoidance and minimization measures required to avoid		Qualified Biologist		
and/or minimize impacts from the project. The training shall include a discussion on				
the reduction of trash and the elimination any food and standing water originating				
from a human source that may attract wildlife, including ravens, to the site. The				
training program will be approved by a qualified biologist. Records of training will be				
kept on-site.				
BIO-4 Nesting Surveys. Vegetation trimming/crushing shall take place outside the	Prior to ground	Project Applicant and	San Bernardino	
general bird breeding season (February 15 to September 15), to the maximum extent	disturbing	their construction	County	
practical. Regardless of the time of year, prior to ground-disturbing activities, a	activities	contractor – Survey		
qualified biologist shall conduct a nesting bird survey to comply with CDFW Code 3503		to be completed by a		
and 3503.5 and the Migratory Bird Treaty Act. The survey shall occur no more than		Qualified Biologist		
three (3) days prior to initiation of proposed project activities and shall include any				
potential nesting habitat (including trees, shrubs, the ground, or nearby structures).				
Any occupied passerine and/or raptor nests occurring within the proposed project area				
or the Project's zone of influence (generally 100-300 feet) shall be delineated and a no-				
disturbance buffer zone (as determined by the avian biologist) shall be established and				
maintained during Project activities. Additional follow-up surveys may be required by				



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
the resource agencies and the County of San Bernardino. The buffer zone shall be sufficient in size to prevent impacts to the nest. A qualified biologist shall monitor active nests to determine whether construction activities are disturbing nesting birds or nestlings. If a nest shows signs of disturbance as determined by a qualified biologist, adaptive management methods may be used to ensure that the buffer distances are effective, and no nests are disturbed. Once nesting has ceased and the fledglings are no longer using the nest area as confirmed by a qualified biologist, the buffer may be removed. A nesting bird survey report shall be provided to the County of San Bernardino and CDFW. If an active nest is encountered during construction, construction shall stop immediately until a qualified biologist can determine the status of the nest, avoidance buffer and when work can proceed without risking violation to State or federal laws.				
<b>BIO-5 Sensitive Species Monitoring/Relocation.</b> If a sensitive species is found, the species shall be relocated out of harm's way according to the capture/relocation plan. Any mortalities shall be reported to the agencies and County of San Bernardino. A final monitoring report will be submitted to CDFW and County of San Bernardino. The annual report shall include a summary of pre-construction surveys, biological monitoring, avoidance measures implemented, and whether the avoidance measures were effective.	During construction	Project Applicant and their construction contractor - Monitoring and relocation to be completed by a Qualified Biologist	San Bernardino County	
<b>BIO-6 Burrowing Owl Survey.</b> A Burrowing Owl Mitigation and Monitoring Plan shall be developed and submitted to CDFW for review 60 days prior to the start of ground disturbing activities. No less than 14 days prior to any ground disturbance activities, a burrowing owl ( <i>Athene cunicularia</i> ) Take Avoidance Survey shall be conducted by a qualified biologist in accordance with the California Department of Fish and Wildlife 2012 <i>Staff Report on Burrowing Owl Mitigation</i> . If burrowing owls are determined to be present where Project activities will occur, site-specific non-disturbance buffer zones shall be established by the qualified biologist based on monitoring and assessments of the Project's effects on the burrowing owls. If it is not possible to avoid active burrows during the nonbreeding season, passive relocation shall be implemented once approved through coordination with CDFW.	No less than 14 days prior to initiating ground disturbance	Project Applicant and their construction contractor – Survey to be completed by a Qualified Biologist	San Bernardino County	
<b>BIO-7 Burrow Complex Determination.</b> A Desert Kit Fox Monitoring and Mitigation Plan shall be prepared and submitted to CDFW for review 60 days prior to the start of ground disturbing activities. Prior to commencing Project activities, a qualified biologist	Prior to construction	Project Applicant and their construction contractor - Work to	San Bernardino County	



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
shall conduct a focused survey for desert kit fox ( <i>Vulpes macrotis</i> ), including assessment of all burrows in the Project area. If potential burrows are located, they shall be monitored by the qualified biologist. If any burrow/burrow complex is determined to house desert kit fox and the burrow/burrow complex is unavoidable, exclusionary devices (e.g., one-way doors) shall be fitted on the active burrow openings, and once the burrow has been confirmed vacant as determined by the qualified biologist and in consultation with CDFW, the burrow shall be carefully excavated to prevent re-entry/re-use of the burrow. These exclusion/excavation activities shall only occur during the non-breeding season (July 2- January 15). If construction will occur during the breeding season, any active burrow/burrow complex that is unavoidable shall be provided a 500-foot no work buffer until the end of breeding season (July 1) or until the burrow has been determined to be inactive (and		be performed by a Qualified Biologist		
<b>BIO-8 Habitat Preservation.</b> Temporary and permanent impacts to all jurisdictional resources shall be compensated through a combination of habitat creation (i.e., establishment), enhancement, preservation, and/or and restoration at a minimum of a 1:1 ratio or as required by the permitting agencies. Any creation, enhancement, preservation, and/or restoration effort shall be implemented pursuant to a Habitat Restoration Plan, which shall include success criteria and monitoring specifications, and shall be approved by the permitting agencies and County of San Bernardino. A habitat restoration specialist will be designated and approved by the permitting agencies and will determine the most appropriate method of restoration.	Prior to construction	Project Applicant and their construction contractor	San Bernardino County	
<b>BIO-9 Temporary Impacts.</b> Temporarily impacted drainage features shall be recontoured to pre-construction conditions. Temporary impacts shall be restored sufficient to compensate for the impact to the satisfaction of the permitting agencies (depending on the location of the impact). If restoration of temporary impact areas is not possible to the satisfaction of the appropriate agency, the temporary impact shall be considered a permanent impact and compensated accordingly.	During construction	Project Applicant and their construction contractor	San Bernardino County	
<b>BIO-10 Limit of Disturbance Boundaries.</b> A biological monitor shall be present prior to initiation of ground disturbing activities to demark limit of disturbance boundaries. Flagging and/or staking will be used to clearly define the work area boundaries and avoid impacts to adjacent drainage features.	Prior to initiation of ground disturbing activities	Project Applicant and their construction contractor - Work to be performed by a Qualified Biologist	San Bernardino County	



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
<b>BIO-11 Run-off Reduction.</b> Graded areas shall be stabilized to promote infiltration and reduce run-off potential.	During construction	Project Applicant and their construction contractor	San Bernardino County	
<b>BIO-12 Pre-Construction Desert Tortoise Survey.</b> Pre-construction surveys for desert tortoise ( <i>Gopherus agassizii</i> ) shall be conducted by a qualified biologist no more than 30 days prior to construction activities. If desert tortoise are observed within the Project Site, the Applicant shall consult with CDFW and USFWS to determine compliance with State (CESA) and federal (FESA) law. Additionally, if desert tortoise are determined to be present, a Raven Management Plan shall be prepared, approved by CDFW and USFWS, and implemented to offset potential predatorial impacts to tortoises.	No more than 30 days prior to construction activities	Project Applicant and their construction contractor - Work to be performed by a Qualified Biologist	San Bernardino County	
Cultural Resources				
<b>CUL-1 Worker Education Awareness Program and Archaeological Monitoring</b> . Prior to the initiation of ground-disturbing activities, the Project Applicant and construction manager shall conduct a Worker Education Awareness Program (WEAP) to alert field personnel to the possibility of buried prehistoric or historic cultural deposits. Development of the WEAP shall include consultation with a Qualified Archaeologist meeting the Secretary of the Interior standards and the Colorado River Indian Tribes. The WEAP shall provide an overview of potential significant archaeological resources that could be encountered during ground disturbing activities, including how to identify prehistoric or historic cultural deposits, to facilitate worker recognition, avoidance, and subsequent immediate notification to the Qualified Archaeologist. Prior to ground disturbing activities, the Project Applicant shall provide evidence to the San Bernardino County Land Use Services Department that construction personnel have conducted a WEAP. Documentation shall be present for all ground-disturbing activity conducted during Project implementation. In the event that cultural resources are discovered during Project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease, and a Qualified Archaeologist meeting the Secretary of the Interior standards shall be hired to assess the find. The Qualified Archaeologist shall have the authority to stop or divert construction excavation as necessary. Work on the other portions of the Project outside of the buffered area may continue during this	Prior to and during ground disturbing activities	Project Applicant and their construction contractor in coordination with a Qualified Archaeologist and the Colorado River Indian Tribes	San Bernardino County	



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
assessment period. Additionally, the Colorado River Indian Tribes (as described in <b>Mitigation Measure TCR-1</b> ) shall be contacted regarding any pre-contact and/or historic-era finds and be provided information after the Qualified Archaeologist makes their initial assessment of the nature of the find, so as to provide Tribal input with regard to significance and treatment.				
<b>CUL-2 Monitoring and Treatment Plan</b> . Prior to Project implementation and the start of ground-disturbing activities, a Monitoring and Treatment Plan (MTP) shall be created by a Qualified Archaeologist meeting the Secretary of the Interior standards in coordination with the Colorado River Indian Tribes and the County Planning Division that outlines process for identification and treatment of inadvertently discovered cultural resources. The MTP shall include requirements outlined in <b>Mitigation</b> <b>Measures CUL-1, TCR-1, and TCR-2</b> and be followed throughout the life of the Project.	Prior to the start of ground- disturbing activities	Project Applicant in coordination with a Qualified Archaeologist	San Bernardino County	
Geology and Soils				
<b>GEO-1 Geotechnical Report</b> . Prior to the issuance of grading permits, the Applicant shall retain a California registered and licensed engineer to design the Project facilities in agreement with geologic conditions identified at the Project site. A Final Geotechnical Report shall be produced to account for variations likely occur in the subgrade which were not detected in the preliminary boring program. All grading and construction on-site shall adhere to the specifications, procedures, and site conditions of the California-registered and licensed professional engineer and consistent with the recommendations in the Preliminary Geotechnical Engineering Report prepared by Terracon Consultants, Inc. in 2022.	Prior to issuance of grading permits	Project Applicant Work to be performed by a California registered and licensed engineer	San Bernardino County	
<b>GEO-2</b> Paleontological Resource Monitoring and Mitigation Plan. In areas of documented or inferred paleontological resource presence, the Applicant shall require consultation with a qualified paleontologist meeting the standards of Society for Vertebrate Paleontology. The initial consultation may be provided by a qualified paleontologist on staff at the County Museum. The qualified paleontologist will determine the degree of paleontological resource sensitivity, as outlined below, and will recommend a paleontological resource monitoring and mitigation plan (PRMMP). This plan will address specifics of monitoring and mitigation for the development project, and will take into account updated geologic mapping, geotechnical data, updated paleontological records searches, and any changes to the regulatory framework. This PRMMP should usually meet the standards of the SVP	Prior to and during ground disturbance	Project Applicant in coordination with a Qualified Paleontologist	San Bernardino County	



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
(2010), unless the project is on BLM land or subject to federal jurisdiction, in which case the BLM standards should be used. The following provisions would be typical for units mapped				
with the different levels of paleontological sensitivity:				
High (SVP)/Class 4–5 (BLM)—All projects involving ground disturbances in previously undisturbed areas sediments mapped as having high paleontological sensitivity will be monitored by a qualified paleontological monitor (BLM, 2009; SVP, 2010) on a full-time basis under the supervision of the Qualified Paleontologist. Undisturbed sediments may be present at the surface, or present in the subsurface, beneath earlier developments. This monitoring will include inspection of exposed sedimentary units during active excavations within sensitive geologic sediments. The monitor will have authority to temporarily divert activity away from exposed fossils to evaluate the significance of the find and, should the fossils be determined to be significant, professionally and efficiently recover the fossil specimens and collect associated data. Paleontological monitors will use field data forms to record pertinent location and geologic data, will measure stratigraphic sections (if applicable) and collect appropriate sediment samples from				
<ul> <li>any fossil localities.</li> <li>Low to High (SVP)/Class 2 to Class 4–5 (BLM)—All projects involving ground disturbance in previously undisturbed areas mapped with low-to-high paleontological sensitivity will only require monitoring if construction activity will exceed the depth of the low sensitivity surficial sediments. The underlying sediments may have high paleontological sensitivity, and therefore work in those units might require paleontological monitoring, as designated by the Qualified Paleontologist in the PRMMP. When determining the depth at which the transition to high sensitivity occurs and monitoring becomes necessary, the Qualified Paleontologist should take into account: a) the most recent local geologic mapping, b) depths at which fossils have been found in the vicinity of the project area, as revealed by the museum records search, and c) geotechnical studies of the project area, if available.</li> <li>Low (SVP)/Class 2–3 (BLM)—All projects involving ground disturbance in previously</li> </ul>				
undisturbed areas mapped as having low paleontological sensitivity should incorporate worker training to make construction workers aware that while paleontological sensitivity is low, fossils might still be encountered. The Qualified				



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
<ul> <li>Paleontologist should oversee this training as well as remain on-call in the event fossils are found. Paleontological monitoring is usually not required for sediments with low (Low / Class 2-3) paleontological sensitivity.</li> <li>None (SVP)/Class 1 (BLM)—Projects determined by the Qualified Paleontologist to involve ground-disturbing activities in areas mapped as having no paleontological sensitivity (i.e., plutonic igneous or high-grade metamorphic rocks) will not require further paleontological mitigation measures.</li> </ul>				
<b>GEO-3 Fossil Discovery Protocol.</b> In the event of any fossil discovery, regardless of depth or geologic formation, construction work will halt within a 50-ft. radius of the find until its significance can be determined by a Qualified Paleontologist. Significant fossils will be recovered, prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and deposited in a designated paleontological curation facility in accordance with the standards of the SVP (2010) and BLM (2009). A repository will be identified, and a curatorial arrangement will be signed prior to collection of the fossils. Although the San Bernardino County Museum is specified as the repository for fossils found in the county in the current General Plan, the museum may not always be available as a repository. Therefore, any accredited institution may serve as a repository.	During construction	Project Applicant in coordination with a Qualified Paleontologist	San Bernardino County	
Tribal Cultural Resources				
<ul> <li>TCR-1 Native American Monitoring. A Native American monitor representing the Colorado River Indian Tribes shall be present for all ground-disturbing activity conducted during Project implementation. As detailed in Mitigation Measure CUL-1, the Colorado River Indian Tribes shall be contacted if any pre-contact and/or historicera cultural resources are discovered during Project implementation and be provided information regarding the nature of the find so as to provide Tribal input with regards to significance and treatment. The Native American monitor shall follow the processes outlined in the Monitoring and Treatment Plan (MTP) drafted by a Qualified Archaeologist in coordination with the Colorado River Indian Tribes and County Planning Division, as required in Mitigation Measure CUL-2.</li> <li>If a pre-contact cultural resource is discovered during Project implementation, the following actions are required:</li> <li>(a) Ground-disturbing activities shall be suspended 60 feet around the resource(s), and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed;</li> </ul>	Prior to initiating ground disturbing activities and during ground disturbing activities	Project Applicant in coordination with a Qualified Archaeologist and the Native American monitor	San Bernardino County	



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
(b) The Applicant shall develop a research design that shall include a plan to evaluate the resource for significance under CEOA criteria, and the County and the Colorado Biver				
Indian Tribes shall review to indicate concurrence. Representatives from the Colorado				
River Indian Tribes the Applicant, and the County shall confer regarding the research				
design, as well as any testing efforts needed to delineate the resource boundary.				
Following the completion of evaluation efforts, all parties shall confer regarding the				
resource's archaeological significance, its potential as a Tribal Cultural Resource (TCR),				
and avoidance (or other appropriate treatment) of the discovered resource.				
Should any significant resource and/or TCR not be a candidate for avoidance or				
preservation in place, and the removal of the resource(s) is necessary to mitigate				
impacts, the research design shall include a comprehensive discussion of sampling				
strategies, resource processing, analysis, and reporting protocols/obligations. Removal				
of any cultural resource(s) shall be conducted with the presence of a Tribal monitor				
representing the Colorado River Indian Tribes unless otherwise decided by the				
Colorado River Indian Tribes. All plans for analysis shall be reviewed and approved by				
the Applicant and the Colorado River Indian Tribes prior to implementation, and all				
removed material shall be temporarily curated on-site. The Colorado River Indian				
Tribes shall indicate if it is the preference of the Colorado River Indian Tribes that				
removed cultural material be reburied as close to the original find location as possible.				
However, should reburial within/near the original find location during Project				
implementation not be feasible, then a reburial location for future reburial shall be				
decided upon by the Colorado River Indian Tribes, the landowner, and the County, and				
all finds shall be reburied within this location. Additionally, in this case, reburial shall				
not occur until all ground-disturbing activities associated with the Project have been				
completed, all monitoring has ceased, all cataloging and basic recordation of cultural				
resources have been completed, and a final monitoring report has been issued to the				
County, CHRIS, and the Colorado River Indian Tribes. All reburials are subject to a				
repurial agreement that shall be developed between the landowner and the Colorado				
River Indian Tribes outlining the determined reburial process/location and shall include				
measures and provisions to protect the reburial area from any future impacts (vis a vis				
project plans, conservation/preservation easements, etc.).				
should it occur that avoidance, preservation in place, and on-site repurial are not an				
material and confer with the Colorado River Indian Tribes to identify an American				



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
Association of Museums (AAM)-accredited facility within the County that can accession the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an appropriately qualified repository shall be developed between the landowner and museum that legally and physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the Applicant's obligation to pay for those fees. All draft records/reports containing the significance and treatment findings and data recovery results shall be prepared by the archaeologist and submitted to the County and the Colorado River Indian Tribes for their review and comment. After approval from all parties, the final reports and site/isolate records are to be submitted to the local CHRIS Information Center, the County, and the Colorado River Indian Tribes.				
<b>TCR-2 Archaeological Documentation</b> . Any and all archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the Applicant, County, and Colorado River Indian Tribes. The County and/or Applicant shall, in good faith, consult with the Colorado River Indian Tribes throughout the life of the Project.	During construction	Project Applicant and their construction contractor	San Bernardino County	



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
Air Quality				
<ul> <li>Air Quality</li> <li>AQ-1 Valley Fever Management Plan. Prior to ground disturbance activities, the Applicant must prepare a Valley Fever Management Plan (VFMP), including a Valley Fever training program, to be implemented during construction to address potential risks from Cl by minimizing the potential for unsafe dust exposure during construction. The VFMP will identify best management practices including: <ul> <li>Development of an educational Valley Fever Training Handout for distribution to onsite workers, which should include general information about the causes, symptoms, and treatment instructions regarding Valley Fever, including contact information of local health departments and clinics knowledgeable about Valley Fever.</li> <li>Conducting Valley Fever training sessions to educate all Project construction workers regarding appropriate dust management and safety procedures, symptoms of Valley Fever, testing, and treatment options. This training must be completed by all workers and visitors (expected to be on-site for more than 2 days) prior to participating in or working in proximity to any ground disturbing activities. Signed documentation of successful completion of the training is to be kept on-site for the duration of construction.</li> </ul> </li> </ul>	Prior to ground disturbance and during construction	Project Applicant	San Bernardino County	
<ul> <li>Developing a job-specific Job Hazard Analyses (JHA), in accordance with Cal/OSHA regulations, to analyze the risk of worker exposure to dust, and maintain and manage safety supplies identified by the JHA.</li> <li>Provide and/or require, if determined to be needed based on the applicable JHA, OSHA-approved half-face respirators equipped with a minimum N-95 protection factor for use during worker collocation with surface disturbance activities, following completion of medical evaluations, fit-testing, and proper training on use of respirators.</li> </ul>				



Mitigation Moacuro	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/
				Notes
Biological Resources	[			
<b>BIO-1 Preconstruction Monitoring.</b> A biological monitor shall be present prior to	Prior to ground	Project Applicant and	San Bernardino	
initiation of ground disturbing activities to demark limit of disturbance boundaries.	disturbing	their construction	County	
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avoid impacts to sensitive plant species with the potential to occur near the proposed		Monitoring to be		
Project boundaries. The biological monitor will be present to conduct pre-construction		undertaken by a		
sweeps and inspect compliance with project protection measures.		Qualified Biologist		
<b>BIO-2 Habitat Preservation.</b> Desert riparian vegetation shall be avoided to the greatest	During	Project Applicant and	San Bernardino	
extent possible within Drainage 4 (Vidal Wash) and Drainage Systems 5 and 6 to	construction	their construction	County	
preserve habitat for the sensitive species with potential to nest and forage in these		contractor – Survey		
areas.		to be completed by a		
		Qualified Biologist		
<b>BIO-3 Pre-Construction Training.</b> An environmental training program shall be	Prior to and	Project Applicant and	San Bernardino	
developed and presented to all crew members prior to the beginning of all project	during	their construction	County	
construction. The training shall describe special-status wildlife species and sensitive	construction	contractor – Training		
habitats that could occur within project work areas, protection afforded to these		to be undertaken by a		
species and habitats, and avoidance and minimization measures required to avoid		Qualified Biologist		
and/or minimize impacts from the project. The training shall include a discussion on				
the reduction of trash and the elimination any food and standing water originating				
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training program will be approved by a qualified biologist. Records of training will be				
kept on-site.				
<b>BIO-4 Nesting Surveys.</b> Vegetation trimming/crushing shall take place outside the	Prior to ground	Project Applicant and	San Bernardino	
general bird breeding season (February 15 to September 15), to the maximum extent	disturbing	their construction	County	
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qualified biologist shall conduct a nesting bird survey to comply with CDFW Code 3503		to be completed by a		
and 3503.5 and the Migratory Bird Treaty Act. The survey shall occur no more than		Qualified Biologist		
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potential nesting habitat (including trees, shrubs, the ground, or nearby structures).				
Any occupied passerine and/or raptor nests occurring within the proposed project area				
or the Project's zone of influence (generally 100-300 feet) shall be delineated and a no-				
disturbance buffer zone (as determined by the avian biologist) shall be established and				
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the resource agencies and the County of San Bernardino. The buffer zone shall be sufficient in size to prevent impacts to the nest. A qualified biologist shall monitor active nests to determine whether construction activities are disturbing nesting birds or nestlings. If a nest shows signs of disturbance as determined by a qualified biologist, adaptive management methods may be used to ensure that the buffer distances are effective, and no nests are disturbed. Once nesting has ceased and the fledglings are no longer using the nest area as confirmed by a qualified biologist, the buffer may be removed. A nesting bird survey report shall be provided to the County of San Bernardino and CDFW. If an active nest is encountered during construction, construction shall stop immediately until a qualified biologist can determine the status of the nest, avoidance buffer and when work can proceed without risking violation to State or federal laws.				
<b>BIO-5 Sensitive Species Monitoring/Relocation.</b> If a sensitive species is found, the species shall be relocated out of harm's way according to the capture/relocation plan. Any mortalities shall be reported to the agencies and County of San Bernardino. A final monitoring report will be submitted to CDFW and County of San Bernardino. The annual report shall include a summary of pre-construction surveys, biological monitoring, avoidance measures implemented, and whether the avoidance measures were effective.	During construction	Project Applicant and their construction contractor - Monitoring and relocation to be completed by a Qualified Biologist	San Bernardino County	
<b>BIO-6 Burrowing Owl Survey.</b> A Burrowing Owl Mitigation and Monitoring Plan shall be developed and submitted to CDFW for review 60 days prior to the start of ground disturbing activities. No less than 14 days prior to any ground disturbance activities, a burrowing owl ( <i>Athene cunicularia</i> ) Take Avoidance Survey shall be conducted by a qualified biologist in accordance with the California Department of Fish and Wildlife 2012 <i>Staff Report on Burrowing Owl Mitigation</i> . If burrowing owls are determined to be present where Project activities will occur, site-specific non-disturbance buffer zones shall be established by the qualified biologist based on monitoring and assessments of the Project's effects on the burrowing owls. If it is not possible to avoid active burrows during the nonbreeding season, passive relocation shall be implemented once approved through coordination with CDFW.	No less than 14 days prior to initiating ground disturbance	Project Applicant and their construction contractor – Survey to be completed by a Qualified Biologist	San Bernardino County	
<b>BIO-7 Burrow Complex Determination.</b> A Desert Kit Fox Monitoring and Mitigation Plan shall be prepared and submitted to CDFW for review 60 days prior to the start of ground disturbing activities. Prior to commencing Project activities, a qualified biologist	Prior to construction	Project Applicant and their construction contractor - Work to	San Bernardino County	


Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
shall conduct a focused survey for desert kit fox (Vulpes macrotis), including		be performed by a		
assessment of all burrows in the Project area. If potential burrows are located, they		Qualified Biologist		
shall be monitored by the qualified biologist. If any burrow/burrow complex is				
determined to house desert kit fox and the burrow/burrow complex is unavoidable,				
exclusionary devices (e.g., one-way doors) shall be fitted on the active burrow				
openings, and once the burrow has been confirmed vacant as determined by the				
qualified biologist and in consultation with CDFW, the burrow shall be carefully				
excavated to prevent re-entry/re-use of the burrow. These exclusion/excavation				
activities shall only occur during the non-breeding season (July 2- January 15). If				
construction will occur during the breeding season, any active burrow/burrow complex				
that is unavoidable shall be provided a 500-foot no work buffer until the end of				
breeding season (July 1) or until the burrow has been determined to be inactive (and				
does not contain pups) by the qualified biologist.				
<b>BIO-8 Habitat Preservation.</b> Temporary and permanent impacts to all jurisdictional	Prior to	Project Applicant and	San Bernardino	
resources shall be compensated through a combination of habitat creation (i.e.,	construction	their construction	County	
establishment), enhancement, preservation, and/or and restoration at a minimum of		contractor		
a 1:1 ratio or as required by the permitting agencies. Any creation, enhancement,				
preservation, and/or restoration effort shall be implemented pursuant to a Habitat				
Restoration Plan, which shall include success criteria and monitoring specifications, and				
shall be approved by the permitting agencies and County of San Bernardino. A habitat				
restoration specialist will be designated and approved by the permitting agencies and				
will determine the most appropriate method of restoration.				
BIO-9 Temporary Impacts. Temporarily impacted drainage features shall be	During	Project Applicant and	San Bernardino	
recontoured to pre-construction conditions. Temporary impacts shall be restored	construction	their construction	County	
sufficient to compensate for the impact to the satisfaction of the permitting agencies		contractor		
(depending on the location of the impact). If restoration of temporary impact areas is				
not possible to the satisfaction of the appropriate agency, the temporary impact shall				
be considered a permanent impact and compensated accordingly.				
<b>BIO-10 Limit of Disturbance Boundaries.</b> A biological monitor shall be present prior to	Prior to initiation	Project Applicant and	San Bernardino	
initiation of ground disturbing activities to demark limit of disturbance boundaries.	of ground	their construction	County	
Flagging and/or staking will be used to clearly define the work area boundaries and	disturbing	contractor - Work to		
avoid impacts to adjacent drainage features.	activities	be performed by a		
		Qualified Biologist		



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
<b>BIO-11 Run-off Reduction.</b> Graded areas shall be stabilized to promote infiltration and reduce run-off potential.	During construction	Project Applicant and their construction contractor	San Bernardino County	
<b>BIO-12 Pre-Construction Desert Tortoise Survey.</b> Pre-construction surveys for desert tortoise ( <i>Gopherus agassizii</i> ) shall be conducted by a qualified biologist no more than 30 days prior to construction activities. If desert tortoise are observed within the Project Site, the Applicant shall consult with CDFW and USFWS to determine compliance with State (CESA) and federal (FESA) law. Additionally, if desert tortoise are determined to be present, a Raven Management Plan shall be prepared, approved by CDFW and USFWS, and implemented to offset potential predatorial impacts to tortoises.	No more than 30 days prior to construction activities	Project Applicant and their construction contractor - Work to be performed by a Qualified Biologist	San Bernardino County	
Cultural Resources				
<b>CUL-1 Worker Education Awareness Program and Archaeological Monitoring</b> . Prior to the initiation of ground-disturbing activities, the Project Applicant and construction manager shall conduct a Worker Education Awareness Program (WEAP) to alert field personnel to the possibility of buried prehistoric or historic cultural deposits. Development of the WEAP shall include consultation with a Qualified Archaeologist meeting the Secretary of the Interior standards and the Colorado River Indian Tribes. The WEAP shall provide an overview of potential significant archaeological resources that could be encountered during ground disturbing activities, including how to identify prehistoric or historic cultural deposits, to facilitate worker recognition, avoidance, and subsequent immediate notification to the Qualified Archaeologist. Prior to ground disturbing activities, the Project Applicant shall provide evidence to the San Bernardino County Land Use Services Department that construction personnel have conducted a WEAP. Documentation shall be present for all ground-disturbing activity conducted during Project implementation. In the event that cultural resources are discovered during Project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease, and a Qualified Archaeologist meeting the Secretary of the Interior standards shall be hired to assess the find. The Qualified Archaeologist shall have the authority to stop or divert construction excavation as necessary. Work on the other portions of the Project outside of the buffered area may continue during this	Prior to and during ground disturbing activities	Project Applicant and their construction contractor in coordination with a Qualified Archaeologist and the Colorado River Indian Tribes	San Bernardino County	



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
assessment period. Additionally, the Colorado River Indian Tribes (as described in <b>Mitigation Measure TCR-1</b> ) shall be contacted regarding any pre-contact and/or historic-era finds and be provided information after the Qualified Archaeologist makes their initial assessment of the nature of the find, so as to provide Tribal input with regard to significance and treatment.				
<b>CUL-2 Monitoring and Treatment Plan</b> . Prior to Project implementation and the start of ground-disturbing activities, a Monitoring and Treatment Plan (MTP) shall be created by a Qualified Archaeologist meeting the Secretary of the Interior standards in coordination with the Colorado River Indian Tribes and the County Planning Division that outlines process for identification and treatment of inadvertently discovered cultural resources. The MTP shall include requirements outlined in <b>Mitigation</b> <b>Measures CUL-1, TCR-1, and TCR-2</b> and be followed throughout the life of the Project.	Prior to the start of ground- disturbing activities	Project Applicant in coordination with a Qualified Archaeologist	San Bernardino County	
Geology and Soils				
<b>GEO-1 Geotechnical Report</b> . Prior to the issuance of grading permits, the Applicant shall retain a California registered and licensed engineer to design the Project facilities in agreement with geologic conditions identified at the Project site. A Final Geotechnical Report shall be produced to account for variations likely occur in the subgrade which were not detected in the preliminary boring program. All grading and construction on-site shall adhere to the specifications, procedures, and site conditions of the California-registered and licensed professional engineer and consistent with the recommendations in the Preliminary Geotechnical Engineering Report prepared by Terracon Consultants, Inc. in 2022.	Prior to issuance of grading permits	Project Applicant Work to be performed by a California registered and licensed engineer	San Bernardino County	
<b>GEO-2</b> Paleontological Resource Monitoring and Mitigation Plan. In areas of documented or inferred paleontological resource presence, the Applicant shall require consultation with a qualified paleontologist meeting the standards of Society for Vertebrate Paleontology. The initial consultation may be provided by a qualified paleontologist on staff at the County Museum. The qualified paleontologist will determine the degree of paleontological resource sensitivity, as outlined below, and will recommend a paleontological resource monitoring and mitigation plan (PRMMP). This plan will address specifics of monitoring and mitigation for the development project, and will take into account updated geologic mapping, geotechnical data, updated paleontological records searches, and any changes to the regulatory framework. This PRMMP should usually meet the standards of the SVP	Prior to and during ground disturbance	Project Applicant in coordination with a Qualified Paleontologist	San Bernardino County	



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
(2010), unless the project is on BLM land or subject to federal jurisdiction, in which case the BLM standards should be used. The following provisions would be typical for units mapped				
with the different levels of paleontological sensitivity:				
<ul> <li>High (SVP)/Class 4–5 (BLM)—All projects involving ground disturbances in previously undisturbed areas sediments mapped as having high paleontological sensitivity will be monitored by a qualified paleontological monitor (BLM, 2009; SVP, 2010) on a full-time basis under the supervision of the Qualified Paleontologist. Undisturbed sediments may be present at the surface, or present in the subsurface, beneath earlier developments. This monitoring will include inspection of exposed sedimentary units during active excavations within sensitive geologic sediments. The monitor will have authority to temporarily divert activity away from exposed fossils to evaluate the significance of the find and, should the fossils be determined to be significant, professionally and efficiently recover the fossil specimens and collect associated data. Paleontological monitors will use field data forms to record pertinent location and geologic data, will measure stratigraphic sections (if applicable) and collect appropriate sediment samples from</li> </ul>				
<ul> <li>Low to High (SVP)/Class 2 to Class 4–5 (BLM)—All projects involving ground disturbance in previously undisturbed areas mapped with low-to-high paleontological sensitivity will only require monitoring if construction activity will exceed the depth of the low sensitivity surficial sediments. The underlying sediments may have high paleontological sensitivity, and therefore work in those units might require paleontological monitoring, as designated by the Qualified Paleontologist in the PRMMP. When determining the depth at which the transition to high sensitivity occurs and monitoring becomes necessary, the Qualified Paleontologist should take into account: a) the most recent local geologic mapping, b) depths at which fossils have been found in the vicinity of the project area, as revealed by the museum records search, and c) geotechnical studies of the project area, if available.</li> <li>Low (SVP)/Class 2–3 (BLM)—All projects involving ground disturbance in previously</li> </ul>				
undisturbed areas mapped as having low paleontological sensitivity should incorporate worker training to make construction workers aware that while paleontological sensitivity is low, fossils might still be encountered. The Qualified				



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
<ul> <li>Paleontologist should oversee this training as well as remain on-call in the event fossils are found. Paleontological monitoring is usually not required for sediments with low (Low / Class 2-3) paleontological sensitivity.</li> <li>None (SVP)/Class 1 (BLM)—Projects determined by the Qualified Paleontologist to involve ground-disturbing activities in areas mapped as having no paleontological sensitivity (i.e., plutonic igneous or high-grade metamorphic rocks) will not require further paleontological mitigation measures.</li> </ul>				
<b>GEO-3 Fossil Discovery Protocol.</b> In the event of any fossil discovery, regardless of depth or geologic formation, construction work will halt within a 50-ft. radius of the find until its significance can be determined by a Qualified Paleontologist. Significant fossils will be recovered, prepared to the point of curation, identified by qualified experts, listed in a database to facilitate analysis, and deposited in a designated paleontological curation facility in accordance with the standards of the SVP (2010) and BLM (2009). A repository will be identified, and a curatorial arrangement will be signed prior to collection of the fossils. Although the San Bernardino County Museum is specified as the repository for fossils found in the county in the current General Plan, the museum may not always be available as a repository. Therefore, any accredited institution may serve as a repository.	During construction	Project Applicant in coordination with a Qualified Paleontologist	San Bernardino County	
Tribal Cultural Resources				
<ul> <li>TCR-1 Native American Monitoring. A Native American monitor representing the Colorado River Indian Tribes shall be present for all ground-disturbing activity conducted during Project implementation. As detailed in Mitigation Measure CUL-1, the Colorado River Indian Tribes shall be contacted if any pre-contact and/or historicera cultural resources are discovered during Project implementation and be provided information regarding the nature of the find so as to provide Tribal input with regards to significance and treatment. The Native American monitor shall follow the processes outlined in the Monitoring and Treatment Plan (MTP) drafted by a Qualified Archaeologist in coordination with the Colorado River Indian Tribes and County Planning Division, as required in Mitigation Measure CUL-2.</li> <li>If a pre-contact cultural resource is discovered during Project implementation, the following actions are required:</li> <li>(a) Ground-disturbing activities shall be suspended 60 feet around the resource(s), and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed;</li> </ul>	Prior to initiating ground disturbing activities and during ground disturbing activities	Project Applicant in coordination with a Qualified Archaeologist and the Native American monitor	San Bernardino County	



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
(b) The Applicant shall develop a research design that shall include a plan to evaluate the resource for significance under CEOA criteria, and the County and the Colorado Biver				
Indian Tribes shall review to indicate concurrence. Representatives from the Colorado				
River Indian Tribes the Applicant, and the County shall confer regarding the research				
design, as well as any testing efforts needed to delineate the resource boundary.				
Following the completion of evaluation efforts, all parties shall confer regarding the				
resource's archaeological significance, its potential as a Tribal Cultural Resource (TCR),				
and avoidance (or other appropriate treatment) of the discovered resource.				
Should any significant resource and/or TCR not be a candidate for avoidance or				
preservation in place, and the removal of the resource(s) is necessary to mitigate				
impacts, the research design shall include a comprehensive discussion of sampling				
strategies, resource processing, analysis, and reporting protocols/obligations. Removal				
of any cultural resource(s) shall be conducted with the presence of a Tribal monitor				
representing the Colorado River Indian Tribes unless otherwise decided by the				
Colorado River Indian Tribes. All plans for analysis shall be reviewed and approved by				
the Applicant and the Colorado River Indian Tribes prior to implementation, and all				
removed material shall be temporarily curated on-site. The Colorado River Indian				
Tribes shall indicate if it is the preference of the Colorado River Indian Tribes that				
removed cultural material be reburied as close to the original find location as possible.				
However, should reburial within/near the original find location during Project				
implementation not be feasible, then a reburial location for future reburial shall be				
decided upon by the Colorado River Indian Tribes, the landowner, and the County, and				
all finds shall be reburied within this location. Additionally, in this case, reburial shall				
not occur until all ground-disturbing activities associated with the Project have been				
completed, all monitoring has ceased, all cataloging and basic recordation of cultural				
resources have been completed, and a final monitoring report has been issued to the				
County, CHRIS, and the Colorado River Indian Tribes. All reburials are subject to a				
repurial agreement that shall be developed between the landowner and the Colorado				
River Indian Tribes outlining the determined reburial process/location and shall include				
measures and provisions to protect the reburnal area from any future impacts (vis a vis				
bould it accur that avaidance preservation in place, and on site roburial are not an				
ontion for treatment, the landowner shall relinquish all ownership and rights to his				
material and confer with the Colorado River Indian Tribes to identify an American				



Mitigation Measure	Implementation Timing	Party Responsible for Implementation	Party Responsible For Monitoring	Date of Completion/ Notes
Association of Museums (AAM)-accredited facility within the County that can accession the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an appropriately qualified repository shall be developed between the landowner and museum that legally and physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the Applicant's obligation to pay for those fees. All draft records/reports containing the significance and treatment findings and data recovery results shall be prepared by the archaeologist and submitted to the County and the Colorado River Indian Tribes for their review and comment. After approval from all parties, the final reports and site/isolate records are to be submitted to the local CHRIS Information Center, the County, and the Colorado River Indian Tribes.				
<b>TCR-2 Archaeological Documentation</b> . Any and all archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the Applicant, County, and Colorado River Indian Tribes. The County and/or Applicant shall, in good faith, consult with the Colorado River Indian Tribes throughout the life of the Project.	During construction	Project Applicant and their construction contractor	San Bernardino County	





### **EXHIBIT E**

# Findings

#### FINDINGS: CONDITIONAL USE PERMIT - VIDAL ENERGY PROJECT

This Conditional Use Permit and Lot Merger involves the construction and operation of a solar photovoltaic (PV) electricity generation and battery energy storage system (BESS) facility to generate renewable energy (Project). The Project will provide 160 megawatts (MW) of alternating current (MW-AC) of solar power and include up to 640 megawatt hours (MWh) of energy storage capacity rate in a BESS on approximately 1,090 acres (Project Site). The Project would be supported by the existing, adjacent Western Area Power Administration (WAPA) 161-kilovolt (kV) overhead transmission corridor. The Project would include the construction of one on-site substation facility that would collect and convert the power generated on-site for transmission via an overhead or underground line to the WAPA transmission system and interconnection location.

The following are the required findings, per the San Bernardino County Development Code (Development Code) Section 85.06.040, and supporting facts for the Conditional Use Permit:

1. The site for the proposed use is adequate in terms of shape and size to accommodate the proposed use and all landscaping, loading areas, open spaces, parking areas, setbacks, walls and fences, yards, and other required features pertaining to the application.

The proposed Project would include the development of solar facilities and associated infrastructure with the capacity to generate a combination of up to 160 MW of alternating current from solar power and up to 640 MW-hours of energy storage capacity in three separate geographic areas. Power generated by the proposed Project would be transferred to an existing WAPA 161 KV line traversing the Project site. The solar facilities would use PV technology and consist of solar arrays mounted on tracking structures mounted to vertical posts. The solar facilities would operate year-round and would generate electricity during daylight hours.

The 1,090-acre site is comprised of 21 separate parcels, which will be merged into one parcel. The Project design is essentially a grid system, in which solar panels are arranged in 600-foot-wide squares with surrounding 20-foot-wide access roads. Inverter and battery stations are located throughout the various groupings. The overall grouping arrangement has attempted to avoid several existing drainage courses. Any new roads surrounding the Project Site would be a minimum of 20 feet wide for use by the San Bernardino County Fire Protection District and other emergency vehicles. Additional internal maintenance roads would be located throughout the Project Site. Internal access roads would be as wide as 20 feet and would be cleared and compacted for equipment and emergency vehicle travel and access to the solar panel blocks. The Project Site access roads would remain in place for ongoing activities after construction is completed and would be covered in gravel, or other approved dust control surfacing. As shown in the Planning Commission Staff Report, all proposed setbacks, fences and other features of the Project meet the requirements of the Development Code for the existing land use and zoning district.

## 2. The site for the proposed use has adequate legal and physical access which means that the site design incorporates appropriate street and highway characteristics to serve the proposed use.

The Project site is 1,090 acres in size and includes a total of 21 parcels located along the east side of Highway 95 and extending east towards the Colorado River in an unincorporated area of San Bernardino County, bordering the San Bernardino/Riverside County Line to the south and in the general area of Vidal Junction. The site for the existing use has adequate access onto and throughout the Project site, utilizing an internal grid-style roadway design. Access roads would be located throughout the Project area and adjacent to the perimeter of the property.

## 3. The proposed use will not have a substantial adverse effect on abutting properties or the allowed use of the abutting properties, which means that the use will not generate excessive noise, traffic, vibration, lighting, glare, or other disturbance.

A Draft and Final Environmental Impact Report (EIR) have been prepared for the proposed Project and includes various topical sections, including those addressing Aesthetics, Noise, and Transportation related effects. The documentation in the EIR found that any lighting during construction, if necessary for any work undertaken in the later hours of the day, would need to be directed downwards and away from any residences. EIR documentation also found Project noise and vibration levels during both Project construction and operation would be below established operational levels at nearby residences, due to their extensive distance from the Project site. Based upon this environmental evaluation, the proposed Project will be in compliance with requirements of the Development Code with respect to noise, vibration, lighting and glare. The Project has also been conditioned to comply with general performance standards for glare and lighting, noise, vibration, and other disturbances pursuant to the Development Code.

## 4. The proposed use and manner of development are consistent with the goals, maps, policies, and standards of the Countywide Plan/Policy Plan and any applicable Community or Specific Plan.

The Project, including the manner of development of the Project, is consistent with the Countywide Plan/Policy Plan (CWP), which includes a Renewable Energy and Conservation Element (RECE). Specifically, the Project is consistent with, but not limited to, the following goals, objectives and policies from the CWP:

#### Policy RE-4.7

RE project site selection and site design shall be guided by the following priorities relative to habitat conservation and mitigation:

- 1. Avoid sensitive habitat, including wildlife corridors, during site selection and project design.
- 2. Where necessary and feasible, conduct mitigation on-site.
- 3. When on-site habitat mitigation is not possible or adequate, establish mitigation off-site in an area designed for habitat conservation.
- Policy Implementation: A Biological Resources Report was prepared for the Project Site • that involved literature research and field surveys to document all biological resources identified within the survey area and included a floral/fauna inventory, vegetation/land use mapping, and habitat suitability assessments to determine the potential for special-status plant and wildlife species and vegetation communities to occur within the survey area. No special-status plant or wildlife species or vegetation communities were observed within the Project site. The Biological Report noted the Project Site was not within a designated Critical Habitat area, as defined by the U.S. Fish and Wildlife Service. The Biological Resources Report noted the northerly drainage course that traverses the site has been used by "large mammals". As such, wildlife linkages traverse the subject property. However, the Project has been designed to avoid development of the major drainage courses that traverse the property, thus preserving the potential wildlife linkages. A database review of special status plant species documented seven species likely to occur within five miles of the property. Of the four species evaluated as having a potential to occur in the Project Area were not observed during the field survey and are considered absent from the Project. One additional species, Utah vine milkweed, was not identified in the literature searches, but was observed within the original Project Area. However, after Project design revisions, it is now located within the Survey Area 500-foot buffer and is, therefore, considered absent from the Project Area. None of the sensitive plant species

with potential to occur are federally or state listed species. No federally or state listed threatened or endangered wildlife species were identified during the biological surveys. Mitigation measures have been recommended to ensure protection measures are in place to minimize the potential impacts to sensitive wildlife species. These Project design features and mitigation measures will ensure the potential effects upon Biological Resources are minimized to a level of less than significant and consistent with Policy RE-4.7.

#### Policy RE-4.10

Prohibit utility-oriented RE project development on sites that would create adverse impacts on the quality of life or economic development opportunities in existing unincorporated communities. Any exception or revisions to the following policy direction would require approval of the Board of Supervisors.

<u>RE 4.10.1</u>: Prohibit development of utility-oriented RE projects in the Rural Living land use districts throughout the County.

• <u>Policy Implementation:</u> The proposed Project is located on vacant land and substantially removed from other uses. The Project site is within the RC (Resource Conservation) Zone and the RLM (Resource Land Management) Countywide Plan District and, therefore, not within the Rural Living District.

<u>RE Goal 5:</u> Renewable energy facilities will be located in areas that meet County standards, local values, community needs and environmental and cultural resource protection priorities.

<u>RE Objective 5.2:</u> Utility-oriented RE facilities will be subject to site criteria consistent with County priorities expressed in the RECE.

<u>RE Policy 5.2(ix)</u>: Utility-oriented RE generation Projects on private land in the unincorporated County will be limited to the site-type below, in addition to meeting criteria established in the RECE and Development Code: (ix). Sites within or adjacent to electric transmission and utility distribution centers.

<u>Policy Implementation</u>: The Project is located adjacent to and would connect with an existing 161-kilovolt overhead transmission line, operated by the Western Area Power Administration (WAPA). Upgrades to the WAPA interconnection related to the proposed Project include the replacement of existing fiber optic cable along the 52-mile Headgate Rock-Blythe transmission line. Considering the various features of the site design, the RECE, Development Code, and proximity to other solar generation facilities, the Project is appropriately sited and compatible with the surrounding area.

## 5. There is supporting infrastructure, existing or available, consistent with the intensity of the development, to accommodate the proposed Project without significantly lowering service levels.

Access to the subject property will occur from State Highway 95. Current access throughout the site is proposed on dirt roads and this condition would remain during the construction and operational phases, although the existing roadways will be either abandoned, realigned or established new to meet the site configuration. A Construction Management Plan is required prior to any grading activities, which will ensure that all public roadways utilized during construction will be maintained.

6. The lawful conditions stated in the approval are deemed reasonable and necessary to protect the overall public health, safety and general welfare.

The Project conditions of approval include measures that require the developer to comply with the general and specific performance measures outlined in the Development Code. The Project has been evaluated by applicable County divisions and departments and as part of the environmental review process to respond to specific development needs and reduce potential environmental impacts.

### 7. The design of the site has considered the potential for the use of solar energy systems and passive or natural heating and cooling opportunities.

The sole purpose of the proposed Project is to develop a solar energy facility that will contribute significant quantities of renewable energy for use by the larger public.

#### FINDINGS: VIDAL ENERGY PROJECT:

The following are the required findings, per the San Bernardino County Development Code (Development Code) Section 84.29.035, and supporting facts for approval of the Project. In making the findings below, the Planning Commission considered the characteristics of the Project's development site and its physical and environmental setting, as well as the physical layout and design of the Project in relation to nearby communities, neighborhoods, and rural residential uses and the location of other solar energy generation facilities that have been constructed, approved, or applied for in the vicinity, whether within a city or unincorporated territory, or on State or Federal land.

Finding (c)(1): The proposed commercial solar energy facility(ies) is either (A) sufficiently separated from existing communities and existing/developing rural residential areas so as to avoid adverse effects, or (B) of a sufficiently small size, provided with adequate setbacks, designed to be lower profile than otherwise permitted, and sufficiently screened from public view so as to not adversely affect the desirability and future development of communities, neighborhoods, and rural residential use.

**Consistency.** The Project site is in a relatively remote area that is far removed from population centers. Although it is within the general area of Vidal to the north and the Riverside County line to the south, very few residences exist in the area. As such, the Project is sufficiently separated from existing communities and rural residential areas such that adverse effects are avoided. The proposed solar panels can rise to a height of up to 18 feet from grade. Due to the extended distance from Highway 95, potential effects of the panel height and use of the property as a solar field would not be significant.

Finding (c)(2): Proposed fencing, walls, landscaping, and other perimeter features of the proposed commercial solar energy generation facility(ies) will minimize the visual impact of the Project so as to blend with and be subordinate to the environment and character of the area where the facility is to be located.

**Consistency.** Security fencing will be provided around the Project site. Permanent motion sensitive directional security lights will be installed to provide illumination around the substation areas and points of ingress/egress. Any proposed lighting must be shielded and directed downward to minimize the potential for glare or spillover onto adjacent properties. The Draft EIR noted Photovoltaic (PV) solar panels are designed to be highly absorptive of light that strikes the panel surfaces, generating electricity rather than reflecting light. PV panels have a lower index of refraction/reflectivity than common sources of glare in residential environments. The glare and reflectance levels of panels

are further reduced with the application of anti-reflective coatings. In addition, there will be no power block and no resulting cooling tower plume.

Finding (c)(3): The siting and design of the proposed commercial solar energy generation facility(ies) will be either: (A) unobtrusive and not detract from the natural features, open space and visual qualities of the area as viewed from communities, rural residential uses, and major roadways and highways or (B) located in such proximity to already disturbed lands, such as electrical substations, surface mining operations, landfills, wastewater treatment facilities, etc., that it will not further detract from the natural features, open space and visual qualities of the area as viewed from communities, rural residential uses, and major roadways and highways.

**Consistency.** The Project site is located in part of a broader Vidal Wash Watershed that descends towards the Colorado River. No unique topographic features exist on the property that development of the proposed Project would detract from. Distant easterly and westerly views would be maintained, thereby not detracting from any natural features, open space or unique visual qualities of the area.

Finding (c)(4): The siting and design of Project site access and maintenance roads have been incorporated in the visual analysis for the Project and shall minimize visibility from public view points while providing needed access to the development site.

**Consistency.** A minimum 26-foot-wide perimeter access roads would be constructed around the various segments of the Project. All interior access routes would be a minimum of 20 feet in width and designed in a grid system every 600 feet. The proposed Project will extend to over two miles east of State Highway 95. Due to the relatively low trajectory of the panels, the very gradual slope extending downward to the east, the overall extensive distance from the State Highway and the dispersed surrounding residential properties, there will be no additional visual impact to the surrounding area.

Finding (c)(5): The proposed commercial solar energy generation facility(ies) will not adversely affect the feasibility of financing infrastructure development in areas planned for infrastructure development or will be located within an area not planned for future infrastructure development (e.g., areas outside of water agency jurisdiction).

**Consistency.** No component of the proposed Project is expected to impact the feasibility of financing infrastructure development for the local area. Water for dust control and other construction needs would be obtained from groundwater wells or purchased from a private water purveyor and trucked to the site. The Project area is not within an established water district service area or other infrastructure related development area.

Finding (c)(6): The proposed commercial solar energy generation facility(ies) will not adversely affect to a significant degree the availability of groundwater supplies for existing communities and existing and developing rural residential areas.

**Consistency.** The Project will use a minimal amount of water for the washing of the solar panels up to twice a year, as noted in the Draft EIR. Construction related water needs are estimated to be up to an estimated 240 acre-feet, which would be met by groundwater resources or a private purveyor as well.

Finding (c)(7): The proposed commercial energy generation facility(ies) will minimize site grading, excavating, and filling activities by being located on land where the existing grade does not exceed an average of five (5) percent across the developed portion of the Project site, and by utilizing construction methods that minimize ground disturbance.

**Consistency.** The Project site slopes gradually at less than one percent from east to west, based upon a review of the USGS Parker SW, California Map. Grading is proposed for the site with finished topographical grades being similar to existing conditions, and in general alignment with existing topography, which is less than five percent on average.

Finding (c)(8): The proposed commercial solar energy generation facility(ies) will be located in proximity to existing electrical infrastructure, such as transmission lines, utility corridors, and roads, so that: (A) minimal ground disturbance and above ground infrastructure will be required to connect to the existing transmission grid, considering the location of the Project site and the location and capacity of the transmission grid, (B) new electrical generation tie lines will be co-located on existing power poles whenever possible, and (C) existing rights-of-way and designated utility corridors will be utilized to the extent practicable.

**Consistency.** The Project is designed to include access to an existing 161 kV transmission line operated by WAPA (Western Area Power Association) that traverses the southeasterly and northeasterly portions of the property. WAPA would construct a new switchyard and associated interconnection facilities adjacent to the Project site and to WAPA's existing Headgate Rock-Blythe 161-kV transmission line. The Project would also include construction of one substation facility in the southeastern corner of the Project Site.

Finding (c)(9): The proposed commercial solar energy generation facility(ies) will be sited so as to avoid or minimize impacts to the habitat of special status species, including threatened, endangered, or rare species, Critical Habitat Areas as designated by the U.S. Fish and Wildlife Service, important habitat/wildlife linkages or areas of connectivity designated by County, state or federal agencies, and areas of Habitat Conservation Plans or Natural Community Conservation Plans that discourage or preclude development.

**Consistency.** A Biological Resources Report was prepared for the Project Site that involved literature research and field surveys to document all biological resources identified within the survey area and included a floral/fauna inventory, vegetation/land use mapping, and habitat suitability assessments to determine the potential for special-status plant and wildlife species and vegetation communities to occur within the survey area. No special-status plant or wildlife species or vegetation communities were observed within the Project site. The Biological Report noted the Project Site was not within a designated Critical Habitat area, as defined by the U.S. Fish and Wildlife Service. The Biological Resources Report noted the northerly drainage course that traverses the site has been used by "large mammals". As such, wildlife linkages traverse the subject property. However, the Project has been designed to avoid development of the major drainage courses that traverse the property, thus preserving the potential wildlife linkages.

A database review of special status plant species documented seven species likely to occur within five miles of the property. Of the four species evaluated as having a potential to occur in the Project Area were not observed during the field survey and are considered absent from the Project. One additional species, Utah vine milkweed, was not identified in the literature searches, but was observed within the original Project Area. However, after Project design revisions, it is now located within the Survey Area 500-foot buffer and is, therefore, considered absent from the Project Area. None of the sensitive plant species with potential to occur are federally or state listed species. No federally or state listed threatened or endangered wildlife species were identified during the biological surveys. Mitigation measures have been recommended to ensure protection measures are in place to minimize the potential impacts to sensitive wildlife species.

Finding (c)(10): Adequate provision has been made to maintain and promote native vegetation and avoid the proliferation of invasive weeds during and following construction.

**Consistency.** The Project includes annual and semi-annual maintenance and operational measures to minimize the potential growth of invasive weeds during and following construction.

Finding (c)(11): The proposed commercial solar energy generation facility(ies) will be located so as to avoid or mitigate impacts to significant cultural and historic resources, as well as sacred landscapes.

**Consistency.** Historical resources were identified on the property, but were not considered eligible for listing in the National Register or unique. However, due to the potential for buried historic or archaeological resources to be unearthed during construction activities, mitigation measures have been incorporated requiring a worker awareness program and an archaeologist on-site during all ground disturbing activities.

Finding (c)(12): The proposed commercial solar energy generation facility(ies) will be designed in a manner that does not impede flood flows, avoids substantial modification of natural water courses, and will not result in erosion or substantially affect area water quality.

**Consistency.** The Project is designed to maintain the natural drainage pattern. The solar fields have been separated into three separate geographic areas to permit the unobstructed movement of existing drainage courses. None of the on-site facilities, including fences and panel posts, would prevent stormwater flow. Grading and Erosion control plans shall be submitted to the County for review and approval, prior to construction.

Finding (c)(13): The proposed commercial solar energy generation facility(ies) will not be located within a floodway designated by the Federal Emergency Management Agency (FEMA), has been evaluated for flood hazard impacts pursuant to Chapter 82.14 of the Development Code, and will not result in increased flood hazards to upstream or downstream properties.

**Consistency.** The Project is located within Flood Zone D according to FEMA Panel Number 06071C9275H dated 8/28/2008. Flood Hazards are defined as undetermined in this Flood Zone, but are possible. A Drainage/Hydrology Study was prepared and accepted by the Land Development Division. A Final Study must be prepared and approved prior to issuance of a Grading Permit and the requirements contained in that document may modify the final recommendations accepted by the Land Development Division.

Finding (c)(14): All on-site solar panels, switches, inverters, transformers, and substations shall be located at least one foot above the base flood elevation as shown on the Flood Insurance Rate Maps.

**Consistency.** Based on the National Flood Hazard Map, the entire Project site is within Zone D, which indicates flooding hazards for the site have not been determined. Mitigation measures to be implemented by the Developer will minimize impacts.

Finding (c)(15): For development sites proposed on or adjacent to undeveloped alluvial fans, the commercial solar energy generation facility has been designed to avoid potential channel migration zones as demonstrated by a geomorphic assessment of the risk of existing channels migrating into the proposed development footprint, resulting in erosion impacts.

**Consistency.** The Project site is located on a broad alluvial fan and potentially affected by off-site tributary drainage from the northwest to the southeast through the Project site. The proposed development is designed to avoid these drainage courses and a jurisdictional analysis of these courses has been undertaken. Each drainage course is ephemerial and regulated by the California Department of Fish and Wildlife and the Regional Water Quality Control Board, but are not subject to the U.S. Army Corps of Engineers. Based upon aerial photography of the property in 1947 and 2020, as viewed on-line using Netronline Historic Photos, the location of the drainage courses remain consistent and have not migrated. In addition, the design of the site would allow for some migration of the drainage courses through the perimeter portions of the property.

Finding (c)(16): For proposed facilities located on prime agricultural soils or land designated by the California Farmland Mapping and Monitoring Program as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance, where use of the land for agricultural purposes is feasible, the proposed commercial solar energy generation facility will not substantially affect the agricultural viability of surrounding lands.

**Consistency.** The proposed Project site does not contain agricultural land or land designated by the State for farmland and, therefore, would not have an adverse effect on the agricultural viability of surrounding lands.

Finding (c)(17): If the proposed site is subject to a Williamson Act contract, the proposed commercial solar energy generation facility(ies) is consistent with the principals of compatibility set forth in California Government Code Section 51238.1.

Consistency. The Project site is not subject to any Williamson Act contracts.

Finding (c)(18): The proposed commercial solar energy generation facility(ies) will not preclude access to significant mineral resources.

**Consistency.** The Project site is not located in an area of known, significant mineral resources. Additionally, solar energy generation is considered an interim land use (with a limited-term contract with a utility) and is expected to be removed after its contractual lifetime.

Finding (c)(19): The proposed commercial solar energy generation facility(ies) will avoid modification of scenic natural formations.

**Consistency.** The Project would avoid any modification of scenic natural formations, as no designated scenic natural formations, as identified by the County, are located at the Project site.

Finding (c)(20): The proposed commercial solar energy generation facility(ies) will be designed, constructed, and operated so as to minimize dust generation, including provision of sufficient watering of excavated or graded soil during construction to prevent excessive dust. Watering will occur at a minimum of three (3) times daily on disturbed soil areas with active operations, unless dust is otherwise controlled by rainfall or use of a dust palliative, or other approved dust control measure.

**Consistency.** The Project will apply dust control measures in compliance with permit conditions and Mojave Desert Air Quality Management District (MDAQMD) guidance. A Dust Control Plan is required to establish the specific measures to be implemented to control dust.

Finding (c)(21): All clearing, grading, earth moving, and excavation activities will cease during period of winds greater than 20 miles per hour (averaged over one hour), or when dust plumes of 20 percent or greater opacity impact public roads, occupied structures, or neighboring property, and in conformance with Air Quality Management District (AQMD) regulations.

**Consistency.** The Project will apply dust control measures in compliance with permit conditions and MDAQMD regulations.

Finding (c)(22): For sites where the boundary of a new commercial solar energy generation facility will be located within one-quarter mile of a primary residential structure, an adequate wind barrier will be provided to reduce potentially blowing dust in the direction of the residence during construction and ongoing operation of the commercial solar energy generation facility.

**Consistency.** The Project is not located within a quarter of a mile of any residential developments or single residences. According to the Draft EIR, the nearest occupied residential receptor is approximately 1,600 feet to the north of the Project site.

Finding (c)(23): Any unpaved roads and access ways will be treated and maintained with a dust palliative or graveled or treated by another approved dust control method to prevent excessive dust, and paving requirements will be applied pursuant to Chapter 83.09 of the Development Code.

**Consistency.** The applicant will prepare a Dust Control Plan for review and approval by the County and MDAQMD. Included in the plan will be treatments and measures designed to the specific conditions of the Project site so as to provide effective dust control. **Finding (c)(24): On-site vehicle speed will be limited to 15 miles per hour.** 

**Consistency.** The applicant will post and enforce speed limit of 15 miles per hour for onsite vehicles.

Finding (c)(25): For proposed commercial solar energy generation facilities within two (2) miles of the Joshua Tree National Park boundaries, the location, design, and operation of the proposed commercial solar energy facility will not be a predominant visual feature along the main access roads to the park (Park Boulevard and Utah Trail), nor will it substantially impair views from hiking/nature trails, campgrounds, and backcountry camping areas within the National Park.

**Consistency.** The Project site is not located within two miles of Joshua Tree National Park. Joshua Tree National Park is located approximately 70 miles to the west.

Finding (c)(26): For proposed facilities within two (2) miles of the Mojave National Preserve boundaries, the location, design, and operation of the proposed commercial solar energy facility will not be a predominant visual feature of, nor substantially impair views from, hiking and backcountry camping areas within the National Preserve.

**Consistency.** The Project site is not located within two miles of the Mojave National Preserve. The Mojave National Preserve is estimated to be approximately 90 miles to the northwest.

Finding (c)(27): For proposed facilities within two (2) miles of Death Valley National Park boundaries, the location, design, and operation of the proposed commercial solar energy facility will not be a predominant visual feature of, nor substantially impair views from, hiking and backcountry camping areas within the National Park.

**Consistent.** The Project site is not located within two miles of Death Valley National Park. Death Valley National Park is estimated to be more than 200 miles to the northwest.

Finding (c)(28): For proposed facilities within two (2) miles of the boundaries of a County, state or federal agency designated wilderness area, the location, design, and operation of the proposed commercial solar energy facility will not be a predominant visual feature of, nor substantially impair views from, the designated wilderness area.

**Consistency.** The Project is not located near the boundaries of a designated County, State, or Federal agency designated wilderness area.

Finding (c)(29): For proposed facilities within two (2) miles of the boundaries of any active military base, the location, design, and operation of the proposed commercial solar energy facility will not substantially impair the mission of the facility.

**Consistency.** The nearest active military base is the Marine Corps Logistic Base in Barstow, located approximately 150 miles to the northwest, and Edwards Air Force Base approximately 200 miles to the northwest. Construction and/or operation of the Project would not preclude military operations from occurring within the Project area.

Finding (c)(30): When located within a city's sphere of influence, in addition to other County requirements, the proposed commercial solar energy facility(ies) will also be consistent with relevant city zoning requirements that would be applied to similar facilities within the city.

**Consistency.** The Project site is not located within the Sphere of Influence of a city. The City of Blythe and City of Needles are located over 30 miles south and over 40 miles north of the Project site, respectively.

Finding (c)(31): On terms and in an amount acceptable to the Director, adequate surety is provided for reclamation of commercial solar energy generation facility(ies) sites should energy production cease for a continuous period of 180 days and/or if the site is abandoned.

**Consistency.** Decommissioning of the site will occur in compliance with County Development Code Section 84.29.060, which requires removal of site facilities when operations cease. The requirement for a removal surety bond will be included in the Conditions of Approval to be adopted for the Project.

### **EXHIBIT F**

## **Conditions of Approval**



### **Conditions of Approval**

Record:	PROJ-2021-00012	System Date:	11/17/2023
Record Type:	Project Application	Primary APN:	0647051110000
Record Status:	In Review	Application Name:	CF - CONDITIONAL USE PERMIT AND LOT MERGER
Effective Date:		Expiration Date:	

Description: CONDITIONAL USE PERMIT AND LOT MERGER - PROPOSED SOLAR FARM

#### This document does not signify project approval.

If the project has been approved, then an effective date and an expiration date for these conditions can be found below. This content reflects County records as at the System Date and time below.

The following conditions of approval have been imposed for the project identified below. The applicant/developer shall complete all conditions of approval stipulated in the approval letter.

Conditions of Approval are organized by project phase, then by status, and finally by department imposing the condition.

On-going conditions must be complied with at all times. For assistance interpreting the content of this document, please contact the Land Use Services Department Planning Division.

Contact information is provided at the end of this document for follow-up on individual conditions.

#### **ON-GOING**

#### Land Use Services - Planning

1 Project Approval Description (CUP/MUP) - Status: Outstanding

This Conditional Use Permit is conditionally approved to permit the construction of a solar facility and battery energy storage system to generated up to 160 megawatts of alternating current (MW-AC) and store up to 640 MWH of renewable energy, in compliance with the San Bernardino County Code (SBCC), California Building Codes (CBC), the San Bernardino County Fire Code (SBCFC), the following Conditions of Approval, the approved site plan, and all other required and approved reports and displays (e.g. elevations). The developer shall provide a copy of the approved conditions and the approved site plan to every current and future project tenant, lessee, and property owner to facilitate compliance with these Conditions of Approval and continous use requirements for the Project.

#### 2 **Project Location** - Status: Outstanding

The Project site is located on the east side of Highway 95, just north of the Riverside/San Bernardino County Line, extending up to 2.5 miles east of Highway 95.

#### 3 <u>**Revisions**</u> - Status: Outstanding

Any proposed change to the approved Project and/or conditions of approval shall require that an additional land use application (e.g. Revision to an Approved Action) be submitted to County Land Use Services for review and approval.

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#### 4 Indemnification - Status: Outstanding

In compliance with SBCC §81.01.070, the developer shall agree, to defend, indemnify, and hold harmless the County or its "indemnitees" (herein collectively the County's elected officials, appointed officials (including Planning Commissioners), Zoning Administrator, agents, officers, employees, volunteers, advisory agencies or committees, appeal boards or legislative body) from any claim, action, or proceeding against the County or its indemnitees to attack, set aside, void, or annul an approval of the County by an indemnitee concerning a map or permit or any other action relating to or arising out of County approval, including the acts, errors or omissions of any person and for any costs or expenses incurred by the indemnitees on account of any claim, except where such indemnification is prohibited by law. In the alternative, the developer may agree to relinquish such approval. Any condition of approval imposed in compliance with the County Development Code or County General Plan shall include a requirement that the County acts reasonably to promptly notify the developer of any claim, action, or proceeding and that the County cooperates fully in the defense. The developer shall reimburse the County and its indemnitees for all expenses resulting from such actions, including any court costs and attorney fees, which the County or its indemnitees may be required by a court to pay as a result of such action. The County may, at its sole discretion, participate at its own expense in the defense of any such action, but such participation shall not relieve the developer of their obligations under this condition to reimburse the County or its indemnitees for all such expenses. This indemnification provision shall apply regardless of the existence or degree of fault of indemnitees. The developer's indemnification obligation applies to the indemnitees' "passive" negligence but does not apply to the indemnitees' "sole" or "active" negligence or "willful misconduct" within the meaning of Civil Code Section 2782.

#### 5 Additional Permits - Status: Outstanding

The developer shall ascertain compliance with all laws, ordinances, regulations and any other requirements of Federal, State, County and Local agencies that may apply for the development and operation of the approved land use. These may include but are not limited to: a. FEDERAL: b. STATE: c. COUNTY: d. LOCAL:

#### 6 **Expiration** - Status: Outstanding

This project permit approval shall expire and become void if it is not "exercised" within 36 months of the effective date of this approval, unless an extension of time is approved. The permit is deemed "exercised" when either: (a.) The permittee has commenced actual construction or alteration under a validly issued building permit, or (b.) The permittee has substantially commenced the approved land use or activity on the project site, for those portions of the project not requiring a building permit. (SBCC §86.06.060) (c.) Occupancy of approved land use, occupancy of completed structures and operation of the approved and exercised land use remains valid continuously for the life of the project and the approval runs with the land, unless one of the following occurs: - Construction permits for all or part of the project are not issued or the construction permits expire before the structure is completed and the final inspection is approved. - The land use is determined by the County to be abandoned or non-conforming. - The land use is determined by the County to be not operating in compliance with these conditions of approval, the County Code, or other applicable laws, ordinances or regulations. In these cases, the land use may be subject to a revocation hearing and possible termination. PLEASE NOTE: This will be the ONLY notice given of this approval's expiration date. The developer is responsible to initiate any Extension of Time application.

#### 7 Continous Effect/Revocation - Status: Outstanding

All of the conditions of this project approval are continuously in effect throughout the operative life of the project for all approved structures and approved land uses/activities. Failure of the property owner or developer to comply with any or all of the conditions at any time may result in a public hearing and possible revocation of the approved land use, provided adequate notice, time and opportunity is provided to the property owner, developer or other interested party to correct the non-complying situation.

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#### 8 **Extension of Time** - Status: Outstanding

Extensions of time to the expiration date (listed above or as otherwise extended) may be granted in increments each not to exceed an additional three years beyond the current expiration date. An application to request consideration of an extension of time may be filed with the appropriate fees no less than thirty days before the expiration date. Extensions of time may be granted based on a review of the application, which includes a justification of the delay in construction and a plan of action for completion. The granting of such an extension request is a discretionary action that may be subject to additional or revised conditions of approval or site plan modifications. (SBCC §86.06.060)

#### 9 Project Account - Status: Outstanding

The Project account number is PROJ-2021-00012. This is an actual cost project with a deposit account to which hourly charges are assessed by various county agency staff (e.g. Land Use Services, Public Works, and County Counsel). Upon notice, the "developer" shall deposit additional funds to maintain or return the account to a positive balance. The "developer" is responsible for all expense charged to this account. Processing of the project shall cease, if it is determined that the account has a negative balance and that an additional deposit has not been made in a timely manner. A minimum balance of \$2,000.00 must be in the project account at the time the Condition Compliance Review is initiated. Sufficient funds must remain in the account to cover the charges during each compliance review. All fees required for processing shall be paid in full prior to final inspection, occupancy and operation of the approved use.

#### 10 Development Impact Fees - Status: Outstanding

Additional fees may be required prior to issuance of development permits. Fees shall be paid as specified in adopted fee ordinances

#### 11 Condition Compliance - Status: Outstanding

In order to obtain construction permits for grading, building, final inspection and/or tenant occupancy for each approved building, the developer shall comply with all of the conditions for each of the respective stages of development. The developer shall obtain written clearance (e-mail is OK) that all of the conditions have been satisfied prior to issuance of any permits.

#### 12 Performance Standards - Status: Outstanding

The approved land uses shall operate in compliance with the general performance standards listed in the County Development Code Chapter 83.01, regarding air quality, electrical disturbance, fire hazards (storage of flammable or other hazardous materials), heat, noise, vibration, and the disposal of liquid waste

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#### 13 **Continous Maintenance** - Status: Outstanding

The Project property owner shall continually maintain the property so that it is visually attractive and not dangerous to the health, safety and general welfare of both on-site users (e.g. employees) and surrounding properties. The property owner shall ensure that all facets of the development are regularly inspected, maintained and that any defects are timely repaired. Among the elements to be maintained, include but are not limited to: a) Annual maintenance and repair: The developer shall conduct inspections for any structures, fencing/walls, driveways, and signs to assure proper structural, electrical, and mechanical safety. b) Graffiti and debris: The developer shall remove graffiti and debris immediately through monthly maintenance. c) Landscaping: The developer shall maintain landscaping in a continual healthy thriving manner at proper height for required screening. Drought-resistant, fire retardant vegetation shall be used where practicable. Where landscaped areas are irrigated it shall be done in a manner designed to conserve water, minimizing aerial spraying. d) Dust control: The developer shall maintain dust control measures on any undeveloped areas where landscaping has not been provided. e) Erosion control: The developer shall maintain erosion control measures to reduce water runoff, siltation, and promote slope stability. f) External Storage: The developer shall maintain external storage, loading, recycling and trash storage areas in a neat and orderly manner, and fully screened from public view. Outside storage shall not exceed the height of the screening walls. g) Metal Storage Containers: The developer shall NOT place metal storage containers in loading areas or other areas unless specifically approved by this or subsequent land use approvals. h) Screening: The developer shall maintain screening that is visually attractive. All trash areas, loading areas, mechanical equipment (including roof top) shall be screened from public view. i) Signage: The developer shall maintain all on-site signs, including posted area signs (e.g. "No Trespassing") in a clean readable condition at all times. The developer shall remove all graffiti and repair vandalism on a regular basis. Signs on the site shall be of the size and general location as shown on the approved site plan or subsequently a County-approved sign plan. j) Lighting: The developer shall maintain any lighting so that they operate properly for safety purposes and do not project onto adjoining properties or roadways. Lighting shall adhere to applicable glare and night light rules. k) Parking and on-site circulation: The developer shall maintain all parking and onsite circulation requirements, including surfaces, all markings and traffic/directional signs in an un-faded condition as identified on the approved site plan. Any modification to parking and access layout requires the Planning Division review and approval. The markings and signs shall be clearly defined, un-faded and legible; these include parking spaces, disabled space and access path of travel, directional designations and signs, stop signs, pedestrian crossing, speed humps and "No Parking", "Carpool", and "Fire Lane" designations. I) Fire Lanes: The developer shall clearly define and maintain in good condition at all times all markings required by the Fire Department, including "No Parking" designations and "Fire Lane" designations.

#### 14 **<u>Clear Sight Triangle</u>** - Status: Outstanding

Adequate visibility for vehicular and pedestrian traffic shall be provided at clear sight triangles at all 90 degree angle intersections of public rights-of-way and private driveways. All signs, structures and landscaping located within any clear sight triangle shall comply with the height and location requirements specified by County Development Code (SBCC§ 83.02.030) or as otherwise required by County Traffic

#### 15 Lighting - Status: Outstanding

Lighting shall comply with Table 83-7 "Shielding Requirements for Outdoor Lighting in the Mountain Region and Desert Region" of the County's Development Code (i.e. "Dark Sky" requirements). All lighting shall be limited to that necessary for maintenance activities and security purposes. This is to allow minimum obstruction of night sky remote area views. No light shall project onto adjacent roadways in a manner that interferes with on-coming traffic. All signs proposed by this project shall only be lit by steady, stationary, shielded light directed at the sign, by light inside the sign, by direct stationary neon lighting or in the case of an approved electronic message center sign, an alternating message no more than once every five seconds.

#### 16 **Construction Hours** - Status: Outstanding

Construction will be limited to the hours of 7:00 a.m. to 7:00 p.m., Monday through Saturday in accordance with the County of San Bernardino Development Code standards. No construction activities are permitted outside of these hours or on Sundays and Federal holidays.

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#### 17 **Construction Noise** - Status: Outstanding

The following measures shall be adhered to during the construction phase of the project: - All construction equipment shall be muffled in accordance with manufacturer's specifications. - All construction staging shall be performed as far as possible from occupied dwellings. The location of staging areas shall be subject to review and approval by the County prior to the issuance of grading and/or building permits. - All stationary construction equipment shall be placed in a manner so that emitted noise is directed away from sensitive receptors (e.g. residences and schools) nearest the project site.

#### 18 **Cultural Resources** - Status: Outstanding

During grading or excavation operations, should any potential paleontological or archaeological artifacts be unearthed or otherwise discovered, the San Bernardino County Museum shall be notified and the uncovered items shall be preserved and curated, as required. For information, contact the County Museum, Community and Cultural Section, telephone (909) 798-8570.

#### 19 GHG - Operational Standards - Status: Outstanding

The developer shall implement the following as greenhouse gas (GHG) mitigation during the operation of the approved project: a. Waste Stream Reduction. The "developer" shall provide to all tenants and project employees County-approved informational materials about methods and need to reduce the solid waste stream and listing available recycling services. b. Vehicle Trip Reduction. The "developer" shall provide to all tenants and project employees County-approved informational materials about the need to reduce vehicle trips and the program elements this project is implementing. Such elements may include: participation in established ride-sharing programs, creating a new ride-share employee vanpool, designating preferred parking spaces for ride sharing vehicles, designating adequate passenger loading and unloading for ride sharing vehicles with benches in waiting areas, and/or providing a web site or message board for coordinating rides. c. Provide Educational Materials. The developer shall provide to all tenants and staff education materials and other publicity about reducing waste and available recycling services. The education and publicity materials/program shall be submitted to County Planning for review and approval. d. Landscape Equipment. The developer shall require in the landscape maintenance contract and/or in onsite procedures that a minimum of 20% of the landscape maintenance equipment shall be electric-powered.

#### 20 **<u>On-going Condition</u>** - Status: Outstanding

Occupancy of Approved Land Use. Occupancy of completed structures and operation o the approved and exercised land use remains valid continuously for the life of the project and the approval runs with the land, unless one of the following occurs; a. Construction permits for all or part of the project are not issued, or the construction permits expire before the structure is completed and the final inspection is approved. b. The land use is determined by the County to be abandoned or non-conforming. c. The land use is determined by the County to be not operating in compliance with these conditions of approval, the County Code, or other applicable laws, ordinances or regulations. In these cases, the land use may be subject to a revocation hearing and possible termination.

#### 21 On-going Condition - Status: Outstanding

Glare: Solar energy facilities shall be designed to preclude daytime glare on any abutting residential land use zoning district, residential parcel, or public right-of-way.

#### 22 On-going Condition - Status: Outstanding

CEQA requires that information developed in environmental impact reports and negative declarations be incorporated into a database which may be used to make subsequent or supplemental environmental determinations. (Pub. Resources Code, § 21003, subd. (e).) Accordingly, please report any special status species and natural communities detected during Project surveys to the California Natural Diversity Database (CNDDB). The CNNDB field survey form can be found at the following link: http://www.dfg.ca.gov/biogeodata/cnddb/pdfs/CNDDB\_FieldSurveyForm.pdf. The completed form can be mailed electronically to CNDDB at the following email address: CNDDB@wildlife.ca.gov. The types of information reported to CNDDB can be found at the following link: http://www.dfg.ca.gov/biogeodata/cnddb/pdfs.ca.gov/biogeodata/cnddb/plants\_and\_animals.asp.

Public Health– Environmental Health Services				
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#### 23 Noise Levels - Status: Outstanding Noise level shall be maintained at or below County Standards, Development Code Section 83.01.080.

#### 24 OWTS Maintenance - Status: Outstanding

The onsite wastewater treatment system shall be maintained so as not to create a public nuisance and shall be serviced by an EHS permitted pumper.

#### 25 Refuse Storage and Disposal - Status: Outstanding

All refuse generated at the premises shall at all times be stored in approved containers and shall be placed in a manner so that environmental public health nuisances are minimized. All refuse not containing garbage shall be removed from the premises at least 1 time per week, or as often as necessary to minimize public health nuisances. Refuse containing garbage shall be removed from the premises at least 2 times per week, or as often if necessary to minimize public health nuisances, by a permitted hauler to an approved solid waste facility in conformance with San Bernardino County Code Chapter 8, Section 33.0830 et. seq.

#### 26 Septic System Maintenance - Status: Outstanding

The septic system shall be maintained so as not to create a public nuisance and shall be serviced by a EHS permitted pumper. For information, please call EHS/Wastewater Section at: 1-800-442-2283.

#### INFORMATIONAL

#### County Fire - Community Safety

#### 27 **<u>F01 Jurisdiction</u>** - Status: Outstanding

The above referenced project is under the jurisdiction of the San Bernardino County Fire Department herein "Fire Department". Prior to any construction occurring on any parcel, the applicant shall contact the Fire Department for verification of current fire protection requirements. All new construction shall comply with the current California Fire Code requirements and all applicable statutes, codes, ordinances, and standards of the Fire Department.

#### 28 **F03 Fire Condition Letter Expiration** - Status: Outstanding

Fire Condition Letters shall expire on the date determined by the Planning Division or Building and Safety.

#### 29 F60 Solar Plans - Status: Outstanding

Solar/PV Plans shall be submitted to the Fire Department for review and approval. The required fees shall be paid at the time of plan submittal.

#### 30 **<u>F61 Solar Surface</u>** - Status: Outstanding

Fire apparatus access roads for photovoltaic facilities without buildings can be designed with native soil compacted to 85% and hold the weight of Fire Apparatus at a minimum of 80K pounds.

#### 31 **<u>F62 Solar Access</u>** - Status: Outstanding

The development shall have a minimum of one point of vehicular access per fenced in area. These are for fire/emergency equipment access and for evacuation routes. Photovoltaic solar facilities without buildings on the site shall have access provided by approved roads, alleys and private drives. Perimeter access roads shall have a minimum twenty (20) foot unobstructed width and vertically clearance of fourteen (14) feet six (6) inches. Interior access roads shall have a minimum fifteen (15) foot unobstructed width and vertical clearance of fourteen (14) feet six (6) inches. Access shall be provided within 300 feet of all solar panels.

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#### 32 **F71 Proposal Changes** - Status: Outstanding

Any changes to this proposal shall require new Fire Department condition letter.

#### Land Use Services - Land Development

33 Additional Drainage Requirements - Status: Outstanding

In addition to drainage requirements stated herein, other "on-site" and/or "off-site" improvements may be required which cannot be determined from tentative plans at this time and would have to be reviewed after more complete improvement plans and profiles have been submitted to this office.

34 Erosion Control Installation - Status: Outstanding

Erosion control devices must be installed and maintained at all perimeter openings and slopes throughout the construction of the project. No sediment is to leave the job site.

- 35 <u>Natural Drainage</u> Status: Outstanding The natural drainage courses traversing the site shall not be occupied or obstructed.
- 36 Project Specific Conditions Status: Outstanding

Joshua Trees. Any land disturbance shall be kept at least 40 feet away from any Joshua tree in order for the design to be acceptable. If the proposed land disturbance is within 40 feet of a Joshua tree, then the applicant will need to submit a survey by a licensed arborist to verify that the proposed design will not detrimentally effect the tree. For all applications, plot plans must show the location of all Joshua trees on a parcel. http://www.sbcounty.gov/Uploads/LUS/BandS/Handouts/IB-0016.pdf

37 **Tributary Drainage** - Status: Outstanding

Adequate provisions should be made to intercept and conduct the tributary off-site and on-site 100-year drainage flows around and through the site in a manner that will not adversely affect adjacent or downstream properties at the time the site is developed.

Effective Date: Expiration Date:

#### PRIOR TO LAND DISTURBANCE

#### Land Use Services - Planning

#### 38 Air Quality - Status: Outstanding

Although the Project does not exceed Mojave Desert Air Quality Management District thresholds, the Project proponent is required to comply with all applicable rules and regulations as the Mojave Desert Air Quality Management District is in non-attainment status for ozone and suspended particulates [PM10 and PM2.5 (State)]. To limit dust production, the Project proponent must comply with Rules 402 nuisance and 403 fugitive dust, which require the implementation of Best Available Control Measures for each fugitive dust source. This would include, but not be limited to, the following Best Available Control Measures. Compliance with Rules 402 and 403 are mandatory requirements and thus not considered mitigation measures: a. The Project proponent shall ensure that any portion of the site to be graded shall be pre-watered prior to the onset of grading activities. 1. The Project proponent shall ensure that watering of the site or other soil stabilization method shall be employed on an on-going basis after the initiation of any grading. Portions of the site that are actively being graded shall be watered to ensure that a crust is formed on the ground surface, and shall be watered at the end of each workday. 2. The Project proponent shall ensure that all disturbed areas are treated to prevent erosion. 3. The Project proponent shall ensure that all grading activities are suspended when winds exceed 25 miles per hour. b. Exhaust emissions from vehicles and equipment and fugitive dust generated by equipment traveling over exposed surfaces, will increase NOX and PM10 levels in the area. Although the Project will not exceed Mojave Desert Air Quality Management District thresholds during operations, the Project proponent will be required to implement the following requirements: 1. All equipment used for grading and construction must be tuned and maintained to the manufacturer's specification to maximize efficient burning of vehicle fuel. 2. The operator shall maintain and effectively utilize and schedule on-site equipment and on-site and off-site haul trucks in order to minimize exhaust emissions from truck idling.

#### 39 **Diesel Regulations** - Status: Outstanding

The operator shall comply with all existing and future California Air Resources Board and Mojave Desert Air Quality Management District regulations related to diesel-fueled trucks, which among others may include: (1) meeting more stringent emission standards; (2) retrofitting existing engines with particulate traps; (3) use of low sulfur fuel; and (4) use of alternative fuels or equipment. Mojave Desert Air Quality Management District rules for diesel emissions from equipment and trucks are embedded in the compliance for all diesel fueled engines, trucks, and equipment with the statewide California Air Resources Board Diesel Reduction Plan. These measures will be implemented by the California Air Resources Board in phases with new rules imposed on existing and new diesel-fueled engines. PROJ-2021-00012

Effective Date:

Expiration Date:

#### 40 **<u>GHG - Construction Standards</u>** - Status: Outstanding

The developer shall submit for review and obtain approval from County Planning of a signed letter agreeing to include as a condition of all construction contracts/subcontracts requirements to reduce GHG emissions and submitting documentation of compliance. The developer/construction contractors shall do the following: a) Implement the approved Coating Restriction Plans. b) Select construction equipment based on low GHG emissions factors and high-energy efficiency. All diesel/gasoline-powered construction equipment shall be replaced, where possible, with equivalent electric or CNG equipment. c) Grading contractor shall provide and implement the following when possible: - training operators to use equipment more efficiently. - identifying the proper size equipment for a task can also provide fuel savings and associated reductions in GHG emissions. - replacing older, less fuel-efficient equipment with newer models. - use GPS for grading to maximize efficiency. d) Grading plans shall include the following statements: - "All construction equipment engines shall be properly tuned and maintained in accordance with the manufacturers specifications prior to arriving on site and throughout construction duration." - "All construction equipment (including electric generators) shall be shut off by work crews when not in use and shall not idle for more than 5 minutes." e) Schedule construction traffic ingress/egress to not interfere with peak-hour traffic and to minimize traffic obstructions. Queuing of trucks on and off site shall be firmly discouraged and not scheduled. A flagperson shall be retained to maintain efficient traffic flow and safety adjacent to existing roadways. f) Recycle and reuse construction and demolition waste (e.g. soil, vegetation, concrete, lumber, metal, and cardboard) per County Solid Waste procedures. g) The construction contractor shall support and encourage ridesharing and transit incentives for the construction crew and educate all construction workers about the required waste reduction and the availability of recycling services.

#### 41 Joshua Tree Relocation Plan - Status: Outstanding

The developer shall submit and have approved by the Planning Division a relocation plan for Joshua Trees within the developed site area. The relocation plan shall be accompanied with certification from a certified arborist, registered professional forester or a Desert Native Plant Expert that the proposed tree removal, replacement, or revegetation activities are appropriate, supportive of a healthy environment, and are in compliance with Chapter 88.01 of the San Bernardino County Development Code. The certification shall include the information in compliance with Department procedures. Transplantation onsite shall be the primary method of addressing a Joshua Tree removals from the subject property

#### Land Use Services - Building and Safety

#### 42 **Demolition Permit** - Status: Outstanding

Obtain a demolition permit for any building/s or structures to be demolished. Underground structures must be broken in, back-filled and inspected before covering.

#### 43 Geotechnical Report - Status: Outstanding

A geotechnical (soil) report shall be submitted to the Building and Safety Division for review and approval prior to issuance of grading permits or land disturbance.

#### Land Use Services - Land Development

#### 44 Drainage Easements - Status: Outstanding

Adequate San Bernardino County Drainage Easements (minimum fifteen [15] feet wide) shall be provided over the natural drainage courses, drainage facilities, and/or concentration of runoff from the site. The hydrologic/hydraulic calculations supporting the size of the easement(s) shall be submitted for review/approval by the Land Development Division prior to recording the easement. Proof of recordation shall be provided to the Land Development Division.

#### 45 Drainage Improvements - Status: Outstanding

A Registered Civil Engineer (RCE) shall investigate and design adequate drainage improvements to intercept and conduct the off-site and on-site 100-year drainage flows around and through the site in a safe manner that will not adversely affect adjacent or downstream properties. Submit drainage study for review and obtain approval. A \$750 deposit for drainage study review will be collected upon submittal to the Land Development Division. Deposit amounts are subject to change in accordance with the latest approved fee schedule.

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Effective Date: Expiration Date:

#### 46 **<u>FEMA Flood Zone</u>** - Status: Outstanding

The project is located within Flood Zone D according to FEMA Panel Number 06071C9275H dated 08/28/2008. Flood hazards are undetermined in this area, but they are still possible. The requirements may change based on the recommendations of a drainage study accepted by the Land Development Division and the most current Flood Map prior to issuance of grading permit.

#### 47 **<u>Grading Plans</u>** - Status: Outstanding

Grading and erosion control plans shall be prepared in accordance with the County's guidance documents (which can be found here: https://lus.sbcounty.gov/land-development-home/grading-and-erosion-control/) and submitted for review with approval obtained prior to construction. All drainage improvements shall be shown on the grading plans according to the approved final drainage study. Fees for grading plans will be collected upon submittal to the Land Development Division and are determined based on the amounts of cubic yards of cut and fill. Fee amounts are subject to change in accordance with the latest approved fee schedule.

#### 48 NPDES Permit - Status: Outstanding

An NPDES permit - Notice of Intent (NOI) - is required on all grading of one (1) acre or more prior to issuance of a grading/construction permit. Contact your Regional Water Quality Control Board for specifics. www.swrcb.ca.gov

#### 49 Regional Board Permit - Status: Outstanding

Construction projects involving one or more acres must be accompanied by Regional Board permit WDID #. Construction activity includes clearing, grading, or excavation that results in the disturbance of at least one (1) acre of land total.

#### 50 Streambed Alteration Agreement - Status: Outstanding

California Department of Fish and Wildlife (CDFW) must be notified per Fish and Game Code (FGC) §1602. A streambed alteration agreement shall be provided prior to Grading permit issuance. Link to CDFW website at: https://www.wildlife.ca.gov/Conservation/LSA.

#### Public Works - Surveyor

#### 51 Corner Records Required Before Grading - Status: Outstanding

Pursuant to Sections 8762(b) and/or 8773 of the Business and Professions Code, a Record of Survey or Corner Record shall be filed under any of the following circumstances: a. Monuments set to mark property lines or corners; b. Performance of a field survey to establish property boundary lines for the purposes of construction staking, establishing setback lines, writing legal descriptions, or for boundary establishment/mapping of the subject parcel; c. Any other applicable circumstances pursuant to the Business and Professions Code that would necessitate filing of a Record of Survey.

#### 52 Monument Disturbed by Grading - Status: Outstanding

If any activity on this project will disturb ANY land survey monumentation, including but not limited to vertical control points (benchmarks), said monumentation shall be located and referenced by or under the direction of a licensed land surveyor or registered civil engineer authorized to practice land surveying PRIOR to commencement of any activity with the potential to disturb said monumentation, and a corner record or record of survey of the references shall be filed with the County Surveyor pursuant to Section 8771(b) Business and Professions Code.

Effective Date: Expiration Date:

#### PRIOR TO BUILDING PERMIT ISSUANCE

#### Land Use Services - Planning

#### 53 Issuance/Building Permit Condition - Status: Outstanding

Lighting Plans. The developer shall submit for review and approval to County Planning a photometric study demonstrating that the project light does not spill onto the adjacent properties, or public streets. Lighting fixtures shall be oriented and focused to the onsite location intended for illumination (e.g. walkways). Lighting shall be shielded away from adjacent sensitive uses, including the adjacent residential development, to minimize light spillover. The glare from any luminous source, including on-site lighting, shall not exceed 0.5 foot-candle at the property line. This shall be done to the satisfaction of County Planning, in coordination with County Building and Safety.

#### 54 Issuance/Building Permit Condition - Status: Outstanding

Issuance/Building Permit Condition - Status: Outstanding Decommissioning Requirements. In accordance with SBCC 84.29.070, Decommissioning Requirements, the Developer shall submit a Closure Plan to the Planning Division for review and approval. The Decommissioning Plan shall satisfy the following requirements: a. Closure Plan. Following the operational life of the project, the project owner shall perform site closure activities to meet federal, state, and local requirements for the rehabilitation and re-vegetation of the project Site after decommissioning. The applicant shall prepare a Closure, Revegetation, and Rehabilitation Plan and submit to the Planning Division for review and approval prior to building permit issuance. Under this plan, all aboveground structures and facilities shall be removed to a depth of three feet below grade, and removed off-site for recycling or disposal. Concrete, piping, and other materials existing below three feet in depth may be left in place. Areas that had been graded shall be restored to original contours unless it can be shown that there is a community benefit for the grading to remain as altered. Succulent plant species native to the area shall be salvaged prior to construction, transplanted into windrows, and maintained for later transplanting following decommissioning. Shrubs and other plant species shall be re-vegetated by the collection of seeds and re-seeding following decommissioning. b. Closure Compliance. Following the operational life of the project, the developer shall perform site closure activities in accordance with the approved closure plan to meet federal, state, and local requirements for the rehabilitation and re-vegetation of the project site after decommissioning. Project decommissioning shall be performed in accordance with all other plans, permits, and mitigation measures that would assure the project conforms to applicable requirements and would avoid significant adverse impacts. These plans shall include the following as applicable: • Water Quality Management Plan • Erosion and Sediment Control Plan • Drainage Report • Notice of Intent and Stormwater Pollution Prevention Plan • Air Quality Permits • Biological Resources Report • Incidental Take Permit, Section 2081 of the Fish and Game Code • Cultural Records Report • The County may require a Phase 1 Environmental Site Assessment be performed at the end of decommissioning to verify site conditions.

#### 55 Issuance/Building Permit Condition - Status: Outstanding

Special Use Permit. The developer shall submit for review and gain approval for a Special Use Permit (SUP) from County Code Enforcement. Thereafter, the SUP shall be renewed annually subject to annual inspections. The annual SUP inspections shall review & confirm continuing compliance with the listed conditions of approval, including all mitigation measures. This comprehensive compliance review shall include evaluation of the maintenance of all storage areas, landscaping, screening and buffering. Failure to comply shall cause enforcement actions against the developer. Such actions may cause a hearing or an action that could result in revocation of this approval and imposition of additional sanctions and/or penalties in accordance with established land use enforcement procedures. Any additional inspections that are deemed necessary by the Code Enforcement Supervisor shall constitute a special inspection and shall be charged at a rate in accordance with the County Fee Schedule, including travel time, not to exceed three (3) hours per inspection. As part of this, the developer shall pay an annual public safety services impact fee in accordance with Code §84.29.040(d).

#### **County Fire - Community Safety**

#### 56 **<u>F02 Fire Fee</u>** - Status: Outstanding

The required fire fees shall be paid to the San Bernardino County Fire Department/Community Safety Division.

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#### 57 **<u>F69 Haz-Mat Approval</u>** - Status: Outstanding

The applicant shall contact the San Bernardino County Fire Department/Hazardous Materials Division (909) 386-8401 for review and approval of building plans, where the planned use of such buildings will or may use hazardous materials or generate hazardous waste materials.

#### Land Use Services - Building and Safety

#### 58 **Construction Plans** - Status: Outstanding

Any building, sign, or structure to be added to, altered (including change of occupancy/use), constructed, or located on site, will require professionally prepared plans based on the most current adopted County and California Building Codes, submitted for review and approval by the Building and Safety Division.

#### 59 Temporary Use Permit - Status: Outstanding

A Temporary Structures (TS) permit for non-residential structures for use as office, retail, meeting, assembly, wholesale, manufacturing, and/ or storage space will be required. A Temporary Use Permit (PTUP) for the proposed structure by the Planning Division must be approved prior to the TS Permit approval. A TS permit is renewed annually and is only valid for a maximum of five (5) years.

#### Land Use Services - Land Development

- 60 **<u>No Comments</u>** Status: Outstanding No comments.
- 61 **<u>Caltrans Review</u>** Status: Outstanding Obtain comments from Caltrans for access requirements and working within their right-of-way.

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#### 62 Road Dedication - Status: Outstanding

Road Dedication/Improvements. The developer shall submit for review and obtain approval from the Land Use Services Department the following dedications and plans for the listed required improvements, designed by a Registered Civil Engineer (RCE) licensed in the State of California: Highway 95 (Caltrans) • Caltrans Review. Obtain comments from Caltrans for access requirements, dedications, and working within their right-of-way. APN 0647-081-37 Westerly Property Line (Quarter Sectional Line – 88 feet) • Road Dedication. A 44-foot grant of easement is required to provide a half-width rightof-way of 44 feet, and a 50-foot radius return grant of easement is required at the intersection of the Westerly Property Line and the Northerly Property Line of APN 0647-081-37. APN 0647-081-37, 0647-091-03, 04, 05, and 06 Northerly Property Line (16th Sectional Line - 60 feet) • Road Dedication. A 30-foot grant of easement is required to provide a halfwidth right-of-way of 30 feet, and a 50-foot radius return grant of easement is required at the intersection of the Northerly Property Line and the Easterly Property Line of APN 0647-091-03. APN 0647-091-03, 0647-061-04, and 05 Easterly Property Line (Sectional Line – 88 feet) • Road Dedication. A 44-foot grant of easement is required to provide a half-width right-ofway of 44 feet. APN 0647-061-01, 02, 03, 04, 13, 22, 29, and 30 Southerly Property Line (16th Sectional Line – 60 feet) • Road Dedication. A 30-foot grant of easement is required to provide a half-width right-of-way of 44 feet. APN 0647-061-15 Easterly Property Line (16th Sectional Line – 60 feet) • Road Dedication. A 30-foot grant of easement is required to provide a half-width right-of-way of 30 feet. APN 0647-061-08 and 09 Northerly Property Line (Quarter Sectional Line – 88 feet) • Road Dedication. A 44-foot grant of easement is required to provide a half-width right-of-way of 44 feet, and a 50-foot radius return grant of easement is required at the intersection of the Northerly Property Line and the Easterly Property Line of APN 0647-061-09. APN 0647-061-08 and 09 Easterly Property Line (Sectional Line - 88 feet) • Road Dedication. A 44-foot grant of easement is required to provide a half-width right-of-way of 44 feet, and a 50-foot radius return grant of easement is required at the intersection of the Easterly Property Line and the Southerly Property Line of APN 0647-061-08. APN 0647-051-08 and 0647-061-08 Southerly Property Line (Sectional Line - 88 feet) • Road Dedication. A 44-foot grant of easement is required to provide a half-width right-of-way of 44 feet, and a 50-foot radius return grant of easement is required at the intersection of the Northerly Property Line and the Westerly Property Line at APN 0647-051-08. APN 0647-061-15 and 16 Westerly Property Line (Sectional Line – 88 feet) • Road Dedication. A 44-foot grant of easement is required to provide a half-width right-of-way of 44 feet, and a 50-foot radius return grant of easement is required at the intersection of the Westerly Property Line and the Northerly Property Line of APN 0647-061-16. APN 0647-061-13, 16, and 20 Northerly Property Line (Sectional Line – 88 feet) • Road Dedication. A 44-foot grant of easement is required to provide a half-width right-of-way of 44 feet

#### 63 Road Standards and Design - Status: Outstanding

All required street improvements shall comply with latest San Bernardino County Road Planning and Design Standards and the San Bernardino County Standard Plans. Road sections shall be designed to Desert Road Standards of San Bernardino County and to the policies and requirements of the County Department of Public Works and in accordance with the General Plan, Circulation Element.

#### 64 **<u>Utilities.</u>** - Status: Outstanding

Final plans and profiles shall indicate the location of any existing utility facility or utility pole which would affect construction, and any such utility shall be relocated as necessary without cost to the County.

#### Public Health– Environmental Health Services

#### 65 **Demolition Inspection Required** - Status: Outstanding

All demolition of structures shall have a vector inspection prior to the issuance of any permits pertaining to demolition or destruction of any premises. For information, contact EHS Mosquito & Vector Control Program at (800) 442-2283 or West Valley Mosquito & Vector at (909) 635-0307.

#### 66 **Existing OWTS** - Status: Outstanding

Existing onsite wastewater treatment system can be used if applicant provides an EHS approved certification that indicates the system functions properly, meets code, has the capacity required for the proposed project, and meets LAMP requirements.

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#### 67 **Existing Wells** - Status: Outstanding

If wells are found on-site, evidence shall be provided that all wells are: (1) properly destroyed, by an approved C57 contractor and under permit from the County OR (2) constructed to EHS standards, properly sealed and certified as inactive OR (3) constructed to EHS standards and meet the quality standards for the proposed use of the water (industrial and/or domestic). Evidence, such as a well certification, shall be submitted to EHS for approval.

#### 68 New OWTS - Status: Outstanding

If sewer connection and/or service are unavailable, onsite wastewater treatment system(s) may then be allowed under the following conditions: a. A soil percolation report shall be submitted to EHS for review and approval. For information, please contact the Wastewater Section at (800) 442-2283. b. An Alternative Treatment System, if applicable, shall be required.

#### 69 Preliminary Acoustical Information - Status: Outstanding

Submit preliminary acoustical information demonstrating that the proposed project maintains noise levels at or below San Bernardino County Noise Standard(s), San Bernardino Development Code Section 83.01.080. The purpose is to evaluate potential future on-site and/or adjacent off-site noise sources. If the preliminary information cannot demonstrate compliance to noise standards, a project specific acoustical analysis shall be required. Submit information/analysis to the EHS for review and approval. For information and acoustical checklist, contact EHS at (800) 442-2283.

#### 70 Sewage Disposal - Status: Outstanding

Method of sewage disposal shall be an EHS approved onsite wastewater treatment system (OWTS) that conforms to the Local Agency Management Program (LAMP).

#### 71 <u>Water Purveyor</u> - Status: Outstanding Water purveyor shall be EHS approved.

#### 72 Water Service Verification Letter - Status: Outstanding

Applicant shall procure a verification letter from the water service provider. This letter shall state whether or not water connection and service shall be made available to the project by the water provider. This letter shall reference the File Index Number and Assessor's Parcel Number(s). For projects with current active water connections, a copy of water bill with project address may suffice.

#### PRIOR TO OCCUPANCY

#### Land Use Services - Planning

#### 73 Occupancy Condition - Status: Outstanding

Removal Surety. Surety in a form and manner determined acceptable to County Counsel and the Land Use Services Director shall be required for the closure costs and complete removal of the solar energy generating facility and other elements of the facility. The developer shall either: a. Post a performance or other equivalent surety bond issued by an admitted surety insurer to guarantee the closure costs and complete removal of the solar panels and other elements of the facility in a form or manner determined acceptable to County Counsel and the Land Use Services Director in an amount equal to 120 percent of the cost estimate generated by a licensed civil engineer and approved by the Land Use Services Director; OR b. Cause the issuance of a certificate of deposit or an irrevocable letter of credit payable to the County of San Bernardino issued by a bank or savings association authorized to do business in this state and insured by the Federal Deposit Insurance Corporation for the purpose of guaranteeing the closure costs and complete removal of the solar panels and other elements of the facility in a form or manner determined acceptable to County Counsel and the Land Use Services Director; OR b. Cause to bank or savings association authorized to do business in this state and insured by the Federal Deposit Insurance Corporation for the purpose of guaranteeing the closure costs and complete removal of the solar panels and other elements of the facility in a form or manner determined acceptable to County Counsel and the Land Use Services Director in an amount equal to 120 percent of the cost estimate generated by a licensed civil engineer and approved by the Land Use Services Director.

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#### 74 Occupancy Condition - Status: Outstanding

AQ-Installation. The developer shall submit for review and obtain approval from County Planning of evidence that all air quality-related conditions have been installed properly and that specified performance objectives are being met to the satisfaction of County Planning and County Building and Safety.

#### 75 Occupancy Condition - Status: Outstanding

Dust Control – Operation. Prior to final inspection, the Applicant shall develop an Operational Dust Control Plan that shall be approved and implemented prior to energization of the solar facility. The Operational Dust Control Plan shall include Dust Control Strategies sufficient to ensure that areas within the Project site shall not generate visible fugitive dust (as defined in Mojave Desert Air Quality Management District's [MDAQMD's] Rule 403.2) such that dust remains visible in the atmosphere beyond the property boundary. During high wind events, Dust Control Strategies shall be implemented so as to minimize the Project site's contribution to visible fugitive dust beyond that observed at the upwind boundary.

#### 76 Occupancy Condition - Status: Outstanding

Public Safety Services Impact Fees. Upon completion and final construction of the Project, the developer of an approved commercial solar energy generation facility shall pay a fee on an annual basis according to the following schedule: Parcel Size Fee Per Acre 0-4.99 acres \$580 5-14.99 acres \$280 15 acres or greater \$157 Alternatively, the developer of an approved commercial solar energy generation facility shall pay an annual public services impact fee on a per acre basis based on a project-specific study of the project's public safety services impacts, which study shall be paid at the developer's expense, using a consultant approved by the County. Whether based on the above schedule or on the basis of the project-specific study, the per acre annual impact fee shall be adjusted annually based on the Consumer Price Index for All Urban Consumers (CPI-U) for the Los Angeles-Riverside-Orange County, California area.

#### 77 Occupancy Condition - Status: Outstanding

Revegetation Plan. Prior to commencement of the decommissioning phase, the project applicant shall prepare a revegetation plan as part of the Decommissioning Plan to identify performance standards necessary for revegetation of the site with native plants. The Decommissioning Plan shall specify success criteria, including, but not limited to, site preparation methods, installation specifications, maintenance requirements, and monitoring/report measures to ensure certain botanical thresholds are met such as adequate cover, density, and species richness. Standards of success shall include at least a 50 percent revegetation success rate compared to baseline conditions and shall include annual monitoring for 2 years. If 50 percent revegetation has not been achieved within 2 years due to lack of water or other environmental factors, the applicant shall work with the County to identify and implement an alternate solution to achieve the identified success rate.

#### 78 Fees Paid - Status: Outstanding

Prior to final inspection by Building and Safety Division and/or issuance of a Certificate of Conditional Use by the Planning Division, the applicant shall pay in full all fees required under actual cost job number PROJ-2021-00012.

#### 79 Installation of Improvements - Status: Outstanding

All required on-site improvements shall be installed per approved plans.

#### 80 Shield Lights - Status: Outstanding

Any lights used to illuminate the site shall include appropriate fixture lamp types as listed in SBCC Table 83-7 and be hooded and designed so as to reflect away from adjoining properties and public thoroughfares and in compliance with SBCC Chapter 83.07, "Glare and Outdoor Lighting" (i.e. "Dark Sky Ordinance).

#### 81 **Condition Compliance** - Status: Outstanding

Prior to occupancy/use, all conditions shall be completed to the satisfaction of County Planning with appropriate authorizing approvals from each reviewing agency.

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#### 82 **<u>GHG - Installation/Implementation Standards</u> - Status: Outstanding**

The developer shall submit for review and obtain approval from County Planning of evidence that all applicable GHG performance standards have been installed, implemented properly and that specified performance objectives are being met to the satisfaction of County Planning and County Building and Safety. These installations/procedures include the following: a) Design features and/or equipment that cumulatively increases the overall compliance of the project to exceed Title 24 minimum standards by five percent. b) All interior building lighting shall support the use of fluorescent light bulbs or equivalent energy-efficient lighting. c) Installation of both the identified mandatory and optional design features or equipment that have been constructed and incorporated into the facility/structure.

#### **County Fire - Community Safety**

#### 83 **<u>F06 Inspection by Fire Department</u>** - Status: Outstanding

Permission to occupy or use the building (Certification of Occupancy or Shell Release) will not be granted until the Fire Department inspects, approves and signs off on the Building and Safety job card for "fire final".

#### Land Use Services - Building and Safety

#### 84 **Condition Compliance Release Form Sign-off** - Status: Outstanding

Prior to occupancy all Department/Division requirements and sign-offs shall be completed.

#### Land Use Services - Land Development

#### 85 Drainage Improvements - Status: Outstanding

All required drainage improvements shall be completed by the applicant. The private Registered Civil Engineer (RCE) shall inspect improvements outside the County right-of-way and certify that these improvements have been completed according to the approved plans. Certification letter shall be submitted to Land Development.

#### 86 **Caltrans Approval** - Status: Outstanding

Obtain approval from Caltrans for access requirements and working within their right-of-way.

#### 87 LDD Requirements - Status: Outstanding

All LDD requirements shall be completed by the applicant prior to occupancy.

#### PRIOR TO FINAL INSPECTION

#### County Fire - Community Safety

#### 88 **<u>F11 Combustible Vegetation</u>** - Status: Outstanding

Combustible vegetation shall be removed as follows: a. Where the average slope of the site is less than 15% - Combustible vegetation shall be removed a minimum distance of thirty (30) feet from all structures or to the property line, whichever is less. b. Where the average slope of the site is 15% or greater - Combustible vegetation shall be removed a minimum one hundred (100) feet from all structures or to the property line, whichever is less. County Ordinance #3586

#### 89 **<u>F48 Material Identification Placards</u>** - Status: Outstanding

The applicant shall install Fire Department approved material identification placards on the outside of all buildings and/or storage tanks that store or plan to store hazardous or flammable materials in all locations deemed appropriate by the Fire Department. Additional placards shall be required inside the buildings when chemicals are segregated into separate areas. Any business with an N.F.P.A. 704 rating of 2-3-3 or above shall be required to install an approved key box vault on the premises, which shall contain business access keys and a business plan.
APN: 0647051110000

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Expiration Date:

### 90 **F51 Commercial Addressing** - Status: Outstanding

Commercial and industrial developments of 100,000 sq. ft or less shall have the street address installed on the building with numbers that are a minimum eight (8) inches in height and with a one (1) inch stroke. The street address shall be visible from the street. During the hours of darkness, the numbers shall be electrically illuminated (internal or external). Where the building is two hundred (200) feet or more from the roadway, additional non-illuminated address identification shall be displayed on a monument, sign or other approved means with numbers that are a minimum of six (6) inches in height and three-quarter (<sup>3</sup>/<sub>4</sub>) inch stroke.

#### 91 **<u>F56 Override Switch</u>** - Status: Outstanding

Where an automatic electric security gate is used, an approved Fire Department override switch (Knox ®) is required.

If you would like additional information regarding any of the conditions in this document, please contact the department responsible for applying the condition and be prepared to provide the Record number above for reference. Department contact information has been provided below.

Department/Agency	Office/Division	Phone Number	
Land Use Services Dept.	San Bernardino Govt. Center	(909) 387-8311	
(All Divisions)	High Desert Govt. Center	(760) 995-8140	
Web Site	https://lus.sbcounty.gov/		
County Fire	San Bernardino Govt. Center	(909) 387-8400	
(Community Safety)	High Desert Govt. Center	(760) 995-8190	
Web Site	https://www.sbcfire.org/		
County Fire	Hazardous Materials	(909) 386-8401	
	Flood Control	(909) 387-7995	
Dept. of Public Works	Solid Waste Management	(909) 386-8701	
	Surveyor	(909) 387-8149	
	Traffic	(909) 387-8186	
Web Site	https://dpw.sbcounty.gov/		
Dept. of Public Health	Environmental Health Services	(800) 442-2283	
Web Site	https://dph.sbcounty.gov/programs/ehs/		
Local Agency Formation Commission (LAFCO)		(909) 388-0480	
Web Site http://www.sbclafco.org/			
	Water and Sanitation	(760) 955-9885	
	Administration,		
	Park and Recreation,		
Special Districts	Roads, Streetlights,	(909) 386-8800	
	Television Districts, and Other		
External Agencies (Caltrans, U.S. Army, etc.)		See condition text for contact information	

## **EXHIBIT G**

# Notice of Determination

### **Notice of Determination**

<b>To:</b>	Office of Planning and Research		From: Public Agency: San Bernardino County LUSD
	U.S. Mail: P.O. Box 3044	Street Address: 1400 Tenth St. Rm 113	Address: <u>385 North Arrowhead Ave, First Floor San</u> Bernardino, CA 92415-0187
	Sacramento, CA 95812-3044	Sacramento, CA 95814	Contact: <u>Jim Morrissey</u> Phone: <u>909-387-4234</u>
	Clerk of the Board County of: <u>San Bernardino</u> Address: <u>385 North Arrowhead Avenue, Second Floor</u> San Bernardino, CA 92415-0130		Lead Agency (if different from above):
			Contact: Phone:

### SUBJECT: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code.

State Clearinghouse Number (if submitted to State Clearinghouse): SCH 2022030713\_\_\_\_\_

Project Title: Vidal Energy Project

Project Applicant: <u>CDH Vidal LLC</u>

Project Location (include county): East side Hwy 95, north of the San Bernardino County Line, extending

approx. 2.5 miles east of Hwy 95, in San Bernardino County, CA

<u>Project Description:</u> Conditional Use Permit and Parcel Merger for a solar facility with battery storage to generate up to 160 MWH of alternating current and store up to 640 MWH of energy on approx. 1,090 acres, in the unincorporated San Bernardino County.

This is to advise that the	San Bernardino County	has approved the
	(🛛 Lead Agency or 🗌 Responsible Agency)	

above-described project on <u>December 21, 2023</u>, and has made the following determinations.

- 1. The project [  $\Box$  will  $\boxtimes$  will not] have a significant effect on the environment.
- 2. ☑ An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA. □ A Mitigated Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
- 3. Mitigation measures [ $\boxtimes$  were  $\square$  were not] made a condition of the approval of the project.
- 4. A mitigation reporting or monitoring plan [  $\boxtimes$  was  $\square$  was not] adopted for this project.
- 5. A statement of Overriding Considerations [ was 🛛 was not] adopted for this project.
- 6. Findings [  $\boxtimes$  were  $\square$  were not] made pursuant to the provisions of CEQA.

This is to certify that the final record of project approval and the Mitigated Negative Declaration are available to the General Public at:

385 N. Arrowhead Ave., San Bernardino, CA 92415

Authority cited: Sections 21083, Public Resources Code. Reference Section 21000-21174, Public Resources Code.

Revised 2011