# Initial Study & Environmental Analysis For:

## **Energy Source Mineral ATLiS Project**



Prepared By:

## **COUNTY OF IMPERIAL**

Planning & Development Services Department

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# SECTION 1 INTRODUCTION

## A. PURPOSE

This document is a  $\square$  policy-level,  $\boxtimes$  project level Initial Study for evaluation of potential environmental impacts resulting with the proposed Energy Source Mineral ATLiS Facility (Refer to Figure 1 & 2).

# B. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) REQUIREMENTS AND THE IMPERIAL COUNTY'S GUIDELINES FOR IMPLEMENTING CEQA

As defined by Section 15063 of the State California Environmental Quality Act (CEQA) Guidelines and Section 7 of the County's "CEQA Regulations Guidelines for the Implementation of CEQA, as amended", an **Initial Study** is prepared primarily to provide the Lead Agency with information to use as the basis for determining whether an Environmental Impact Report (EIR), Negative Declaration, or Mitigated Negative Declaration would be appropriate for providing the necessary environmental documentation and clearance for any proposed project.

- According to Section 15065, an **EIR** is deemed appropriate for a particular proposal if the following conditions occur:
- The proposal has the potential to substantially degrade quality of the environment.
- The proposal has the potential to achieve short-term environmental goals to the disadvantage of long-term environmental goals.
- The proposal has possible environmental effects that are individually limited but cumulatively considerable.
- The proposal could cause direct or indirect adverse effects on human beings.

| L | oxdot According to Section 15070(a), a <b>Negative Declaration</b> is deemed appropriate if the proposal w | vould no | t result |
|---|--|----------|----------|
|   | in any significant effect on the environment.  |          |          |
|   |  |          |          |

| According to Section 15070(b), a Mitigated Negative Declaration is deemed appropriate if it is det       | ermined |
|--|---------|
| that though a proposal could result in a significant effect, mitigation measures are available to reduce | e these |
| significant effects to insignificant levels.   |         |

This Initial Study has determined that the proposed applications will result in potentially significant environmental impacts and therefore, an Environmental Impact Report is deemed as the appropriate document to provide necessary environmental evaluations and clearance as identified hereinafter.

This Initial Study (IS) is prepared in conformance with the California Environmental Quality Act of 1970, as amended (Public Resources Code, Section 21000 et. seq.); Section 15070 of the State & County of Imperial's Guidelines for Implementation of the California Environmental Quality Act of 1970, as amended (California Code of Regulations, Title 14, Chapter 3, Section 15000, et. seq.); applicable requirements of the County of Imperial; and the regulations, requirements, and procedures of any other responsible public agency or an agency with jurisdiction by law.

Pursuant to the County of Imperial <u>Guidelines for Implementing CEQA</u>, depending on the project scope, the County of Imperial Board of Supervisors, Planning Commission and/or Planning Director is designated the Lead Agency,

in accordance with Section 15050 of the CEQA Guidelines. The Lead Agency is the public agency which has the principal responsibility for approving the necessary environmental clearances and analyses for any project in the County.

## C. INTENDED USES OF INITIAL STUDY AND NOTICE OF PREPARATION

This IS and Notice of Preparation (NOP) are informational documents which are intended to inform County decision-makers, other responsible or interested agencies, and the general public of potential environmental effects of the proposed applications. The environmental review process has been established to enable public agencies to evaluate environmental consequences and to examine and implement methods of eliminating or reducing any potentially adverse impacts. While CEQA requires that consideration be given to avoiding environmental damage, the Lead Agency and other responsible public agencies must balance adverse environmental effects against other public objectives, including economic and social goals. The IS and NOP prepared for the Project will be circulated for a period of 35 days for public and agency review and comments.

## D. CONTENTS OF INITIAL STUDY

This Initial Study is organized to facilitate a basic understanding of the existing setting and environmental implications of the proposed applications.

## **SECTION 1**

**I. INTRODUCTION** presents an introduction to the entire report. This section discusses the environmental process, scope of environmental review, and incorporation by reference documents.

## **SECTION 2**

**II. ENVIRONMENTAL CHECKLIST FORM** contains the County's Environmental Checklist Form. The checklist form presents results of the environmental evaluation for the proposed applications and those issue areas that would have either a significant impact, potentially significant impact, or no impact.

**PROJECT SUMMARY, LOCATION AND EVIRONMENTAL SETTINGS** describes the proposed project entitlements and required applications. A description of discretionary approvals and permits required for project implementation is also included. It also identifies the location of the project and a general description of the surrounding environmental settings.

**ENVIRONMENTAL ANALYSIS** evaluates each response provided in the environmental checklist form. Each response checked in the checklist form is discussed and supported with sufficient data and analysis as necessary. As appropriate, each response discussion describes and identifies specific impacts anticipated with project implementation.

## **SECTION 3**

- **III. MANDATORY FINDINGS** presents Mandatory Findings of Significance in accordance with Section 15065 of the CEQA Guidelines.
- **IV. PERSONS AND ORGANIZATIONS CONSULTED** identifies those persons consulted and involved in preparation of this Initial Study and Negative Declaration.
- V. REFERENCES lists bibliographical materials used in preparation of this document.

## E. SCOPE OF ENVIRONMENTAL ANALYSIS

For evaluation of environmental impacts, each question from the Environmental Checklist Form is summarized and responses are provided according to the analysis undertaken as part of the Initial Study. Impacts and effects will be evaluated and quantified, when appropriate. To each question, there are four possible responses, including:

- 1. No Impact: A "No Impact" response is adequately supported if the impact simply does not apply to the proposed applications.
- 2. Less Than Significant Impact: The proposed applications will have the potential to impact the environment. These impacts, however, will be less than significant; no additional analysis is required.
- 3. Less Than Significant With Mitigation Incorporated: This applies where incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact".
- 4. Potentially Significant Impact: The proposed applications could have impacts that are considered significant. Additional analyses and possibly an EIR could be required to identify mitigation measures that could reduce these impacts to less than significant levels.

## F. POLICY-LEVEL or PROJECT LEVEL ENVIRONMENTAL ANALYSIS

This Initial Study will be conducted under a ☐ policy-level, ☒ project level analysis. Regarding mitigation measures, it is not the intent of this document to "overlap" or restate conditions of approval that are commonly established for future known projects or the proposed applications. Additionally, those other standard requirements and regulations that any development must comply with, that are outside the County's jurisdiction, are also not considered mitigation measures and therefore, will not be identified in this document.

## G. TIERED DOCUMENTS AND INCORPORATION BY REFERENCE

Information, findings, and conclusions contained in this document are based on incorporation by reference of tiered documentation, which are discussed in the following section.

## 1. Tiered Documents

As permitted in Section 15152(a) of the CEQA Guidelines, information and discussions from other documents can be included into this document. Tiering is defined as follows:

"Tiering refers to using the analysis of general matters contained in a broader EIR (such as the one prepared for a general plan or policy statement) with later EIRs and negative declarations on narrower projects; incorporating by reference the general discussions from the broader EIR; and concentrating the later EIR or negative declaration solely on the issues specific to the later project."

Tiering also allows this document to comply with Section 15152(b) of the CEQA Guidelines, which discourages redundant analyses, as follows:

"Agencies are encouraged to tier the environmental analyses which they prepare for separate but related projects including the general plans, zoning changes, and development projects. This approach can eliminate repetitive discussion of the same issues and focus the later EIR or negative declaration on the actual issues ripe for decision at each level of environmental review. Tiering is appropriate when the sequence of analysis is from an EIR prepared for a general plan, policy or program to an EIR or negative declaration for another plan, policy, or program of lesser scope, or to a site-specific EIR or negative declaration."

Further, Section 15152(d) of the CEQA Guidelines states:

"Where an EIR has been prepared and certified for a program, plan, policy, or ordinance consistent with the requirements of this section, any lead agency for a later project pursuant to or consistent with the program, plan, policy, or ordinance should limit the EIR or negative declaration on the later project to effects which:

- (1) Were not examined as significant effects on the environment in the prior EIR; or
- (2) Are susceptible to substantial reduction or avoidance by the choice of specific revisions in the project, by the imposition of conditions, or other means."

## 2. <u>Incorporation By Reference</u>

Incorporation by reference is a procedure for reducing the size of EIRs/MND and is most appropriate for including long, descriptive, or technical materials that provide general background information, but do not contribute directly to the specific analysis of the project itself. This procedure is particularly useful when an EIR or Negative Declaration relies on a broadly-drafted EIR for its evaluation of cumulative impacts of related projects (*Las Virgenes Homeowners Federation v. County of Los Angeles* [1986, 177 Ca.3d 300]). If an EIR or Negative Declaration relies on information from a supporting study that is available to the public, the EIR or Negative Declaration cannot be deemed unsupported by evidence or analysis (*San Francisco Ecology Center v. City and County of San Francisco* [1975, 48 Ca.3d 584, 595]). This document incorporates by reference appropriate information from the "Final Environmental Impact Report and Environmental Assessment for the "County of Imperial General Plan EIR" prepared by Brian F. Mooney Associates in 1993 and updates.

When an EIR or Negative Declaration incorporates a document by reference, the incorporation must comply with Section 15150 of the CEQA Guidelines as follows:

- The incorporated document must be available to the public or be a matter of public record (CEQA Guidelines Section 15150[a]). The General Plan EIR and updates are available, along with this document, at the County of Imperial Planning & Development Services Department, 801 Main Street, El Centro, CA 92243 Ph. (442) 265-1736.
- This document must be available for inspection by the public at an office of the lead agency (CEQA Guidelines Section 15150[b]). These documents are available at the County of Imperial Planning & Development Services Department, 801 Main Street, El Centro, CA 92243 Ph. (442) 265-1736.
- These documents must summarize the portion of the document being incorporated by reference or briefly
  describe information that cannot be summarized. Furthermore, these documents must describe the
  relationship between the incorporated information and the analysis in the tiered documents (CEQA
  Guidelines Section 15150[c]). As discussed above, the tiered EIRs address the entire project site and
  provide background and inventory information and data which apply to the project site. Incorporated
  information and/or data will be cited in the appropriate sections.
- These documents must include the State identification number of the incorporated documents (CEQA Guidelines Section 15150[d]). The State Clearinghouse Number for the County of Imperial General Plan EIR is SCH #93011023.
- The material to be incorporated in this document will include general background information (CEQA Guidelines Section 15150[f]). This has been previously discussed in this document.

## Environmental Checklist

- 1. Project Title: Energy Source Mineral ATLiS Project
- 2. Lead Agency: Imperial County Planning & Development Services Department
- 3. Contact person and phone number: David Black, Planner IV, (442) 265-1736, ext. 1746
- 4. Address: 801 Main Street, El Centro CA, 92243
- 5. **E-mail**: davidblack@co.imperial.ca.us

11.

- 6. Project location: The Project's lithium hydroxide production plant and facilities will be located at 477 West McDonald Road, Calipatria, California which is approximately 3.8 miles southwest of the community of Niland on three parcels privately owned by Hudson Ranch Power I LLC in the County: APNs 020-100-025, 020-100-044, 020-100-046. Currently, the HR1 power plant exists within the northeast corner of the 65.12-acre parcel, APN 020-100-044. The Project's plant facilities would be built on an approximately 37-acre area that would be subdivided out of the existing 65.12 acres. An additional 15 acres of the Project site located on the northwestern parcel APN 020-100-025 and approximately 40 acres of the Project site located on the southeast parcel APN 020-100-046 will be added to the 37-acres through a subdivision map application to form the new parcel for the Project.
- 7. Project sponsor's name and address: Energy-Source Mineral, LLC
- 8. General Plan designation: Medium Industrial
- 9. **Zoning**: M-2-G-PE (Medium Industrial/Geothermal Overlay Zone/Pre-existing Overlay Zone
- 10. **Description of project**: Energy-Source Minerals LLC is proposing to construct and operate a commercial lithium hydroxide production plant within the Salton Sea geothermal field in Imperial County, California (Project). The facility will process geothermal brine from the neighboring Hudson Ranch Power I Geothermal Plant (HR1) to produce lithium hydroxide, as well as zinc and manganese products which would be sold commercially.
- 11. **Surrounding land uses and setting**: To the west of the Project site is generally Imperial Irrigation District (IID)-owned vacant marsh land adjoining to the Salton Sea. To the north of the Project site is vacant land that now is mostly used for duck hunting clubs and is the location of the production and injection wells for HR1. To the south is vacant land that has never been in any production and is also the site of numerous "mud-pots". There are no residential uses within at least two miles of the Project site.
- 12. **Other public agencies whose approval is required** (e.g., permits, financing approval, or participation agreement.):
  - Caltrans Encroachment Permit
  - California Department of Toxic Substances/Certified Unified Program Agency (CUPA) Hazardous Materials / Environmental Protection Agency Approvals and Permits
  - Regional Water Quality Control Board Water Discharge Requirement
  - Imperial Irrigation District Encroachment Permit
  - Imperial County Air Pollution Control District Permit to Construct and Permit to Operate
  - Environmental Health Departments for HR1 Potable Water Treatment Modified Permit
  - Imperial County Public Works
  - Imperial County Fire Department and Office of Emergency Services
- 13. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures

## regarding confidentially, etc.?

In accordance with California Assembly Bill (AB) 52, Native American tribes with potential resources in the area were notified of the Project on November 6, 2020 and offered the opportunity for consultation. As of November 20, 2020, the Quechan Tribe has requested consultation for the Project. Any other results regarding consultation will be outlined in the Cultural Resources Report being prepared for the Project.

Note: Conducting consultation early in the CEQA process allows tribal governments, lead agencies, and project proponents to discuss the level of environmental review, identify and address potential adverse impacts to tribal cultural resources, and reduce the potential for delay and conflict in the environmental review process. (See Public Resources Code, Section 21080.3.2). Information may also be available from the California Native American Heritage Commission's Sacred Lands File per Public Resources Code, Section 5097.96 and the California Historical Resources Information System administered by the California Office of Historic Preservation. Please also note that Public Resources Code, Section 21082.3 (c) contains provisions specific to confidentiality.

## **ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED:**

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

|                              | Aesthetics  |                                     | Agriculture and Forestry Re   | esources                       |                      | Air Quality  |
|------------------------------|---|-------------------------------------|---|--------------------------------|----------------------|--|
|                              | Biological Resources  |                                     | Cultural Resources  |                                | $\boxtimes$          | Energy   |
|                              | Geology /Soils  |                                     | Greenhouse Gas Emission   | s                              |                      | Hazards & Hazardous Materials  |
|                              | Hydrology / Water Quality   |                                     | Land Use / Planning   |                                |                      | Mineral Resources  |
|                              | Noise   |                                     | Population / Housing  |                                |                      | Public Services  |
|                              | Recreation  |                                     | Transportation  |                                |                      | Tribal Cultural Resources  |
|                              | Utilities/Service Systems   |                                     | Wildfire  |                                |                      | Mandatory Findings of Significance   |
| □ Fo                         | Review of the Initial Stud<br>ound that the proposed<br><u>ARATION</u> will be prepar | project C                           |   |                                |                      | he environment, and a <u>NEGATIV</u>   |
| For signification            | ound that although the p  | oroposed<br>ecause re               | visions in the project I  |                                |                      | he environment, there will not be agreed to by the project proponer  |
| ⊠ Fo                         |   | project M                           |   | nt effect on the               | enviro               | nment, and an <u>ENVIRONMENTA</u>  |
| mitigat<br>pursua<br>analys  | ted" impact on the environant to applicable legal s                                   | onment, b<br>standards<br>shed shee | out at least one effect<br>, and 2) has been a<br>ets. An ENVIRONME | 1) has been a<br>ddressed by r | dequate<br>nitigatio | et" or "potentially significant unlessely analyzed in an earlier docume<br>on measures based on the earlier<br>PRT is required, but it must analyz |
| significa<br>applica<br>DECL | cant effects (a) have be<br>able standards, and (l                                    | en analy<br>o) have                 | zed adequately in ar<br>been avoided or n                           | earlier EIR o                  | r NEGA<br>Jant to    | environment, because all potential ATIVE DECLARATION pursuant that earlier EIR or NEGATIV pon the proposed project, nothing                        |
| CALIF                        | ORNIA DEPARTMENT  | OF FISH                             | AND WILDLIFE DE   | MINIMIS IMPA                   | CT FIN               | IDING: Yes No  |
|                              | EEC VOTES PUBLIC WORKS ENVIRONMENTAL OFFICE EMERGEN APCD AG SHERIFF DEPART            | ICY SERV                            | ·—  | NO ABS                         | SENT                 |  |

| Jim Minnick, Director of Planning/EEC Chairman | Date: |
|--|-------|
| PROJECT SUMMARY                                |       |

Energy-Source Minerals LLC (Applicant) is proposing to construct and operate a commercial lithium hydroxide production plant within the Salton Sea geothermal field in Imperial County (County), California. The facility (ALTiS Plant) will process geothermal brine from the neighboring Hudson Ranch Power I Geothermal Plant (HR1) to produce lithium hydroxide, as well as zinc and manganese products which would be sold commercially.

## A. Project Location:

The Project's production plant and facilities will be located at 477 West McDonald Road, Calipatria, California which is approximately 3.8 miles southwest of the community of Niland on three parcels privately owned by Hudson Ranch Power I (HR1) LLC in the County: APNs 020-100-025, 020-100-044, 020-100-046 (Project site; Figure 1). Currently, the HR1 power plant exists within the northeast corner of the 65.12-acre parcel, APN 020-100-044. The Project's plant facilities would be built on an approximately 37-acre area that would be subdivided out of the existing 65.12 acres. An additional 15 acres of the Project site located on the northwestern parcel APN 020-100-025 and approximately 40 acres of the Project site located on the southeast parcel APN 020-100-046 will be added to the 37-acres through a subdivision map application to form the new parcel for the Project. The layout of the Project is shown in the Project Site Plan (Figure 2).

All parcels that make up the Project site are zoned medium industrial (M-2) and are located within the geothermal overlay zone (G) and pre-existing allowed/restricted overlay zone (PE). The M-2 zone is to designate areas for wholesale commercial, storage, trucking, assembly type manufacturing, general manufacturing, research and development, medium intensity fabrication and other similar medium intensity processing facilities. Land in the PE overlay zone is also classified in another "base" zone, and is intended to allow an existing base zoned use to continue with its current use, even though through the strict interpretation of the County General Plan and Zoning Ordinances, such use is a pre-existing, non-conforming use. Additionally, the geothermal overlay zone designates the area for geothermal energy extraction and associated activities. The Project is located entirely within the Salton Sea Geothermal Overlay Zone.

Two primary entry driveways that serve as the access to the Project site will be constructed from McDonald Road. A secondary access entrance to the Project site will serve as an emergency only access point and will be constructed off Davis Road. Primary highway access to the proposed Project site will be via State Highway (HWY) 111. The Applicant will obtain encroachment permits from the County Department of Public Works for the driveway access. The unpaved portion of McDonald Road between Highway 111 and English Road will be paved.

The western portion of the Project site is located within the Federal Emergency Management Agency (FEMA) "Zone A" flood zone, in which there is a one percent annual chance of flooding. However, to comply with FEMA regulations, during the construction of Hudson Ranch I a berm was installed along the exterior boundary to eliminate possible flooding.

## B. Current Use of the Project Site and Surrounding Areas

Currently, the location of the proposed Project is partially on the existing HR1 site, which was previously permitted for the geothermal plant. In addition to the actual power plant, the rest of the land has been used for laydown areas, storage areas, and stormwater management. The additional land that will be included is an approximately 15-acre parcel, APN 020-100-025, located at the southeast corner of Davis Road and McDonald Road. This 15-acre site has been vacant for several decades and was previously used for geothermal testing. Also added to the Project site is an approximate 40-acre portion of APN 020-100-046, directly south of the HR1 plant site.

To the west of the Project site (on the west side of Davis Road) is generally Imperial Irrigation District (IID)-owned

vacant marsh land adjoining to the Salton Sea. To the north of the Project site is vacant land that now is mostly used for duck hunting clubs and the location of the production and injection wells for HR1. To the south is vacant land that has never been in any production and is also the site of numerous "mud-pots". There are no residential uses within at least two miles of the Project site.

## C. Project Summary:

The Project would consist of the following activities:

- Construction and operation of a plant to extract lithium, manganese, zinc, and other commercially viable substances from geothermal brine and process the extracted substances to produce commercial quantities of lithium, and to the extent possible, manganese and zinc products and other products;
- Construction and operation of brine supply and return pipelines and other associated interconnection facilities with the HR1 power plant:
- Construction of a primary access road from McDonald Road (approximately 500 feet west of the HR 1 entrance), a second primary access about 800 feet west, and an emergency access entrance only from Davis Road:
- Paving of McDonald Road from Highway 111 to English Road (approximately 3 miles);
- Construction of a power interconnection line from the IID and HR1 switchyard located at the northeast corner of the HR1 site;
- Construction of associated facilities between HR1 and the Project site to facilitate the movement of brine and other services;
- Construction of a laydown yard that will also support temporary offices during construction as well as serving as a truck management yard during operations; and
- Construction of offices, repair facilities, shipping and receiving facilities and other infrastructure components.

#### **Structures**

The Project site will include construction of the following buildings and structures:

- Plant offices (which will house offices and meeting rooms);
- Operations and employee facilities (which will house offices for supervisors, meeting rooms, breakroom/lunch room, lockers/shower rooms);
- Maintenance shop, materials warehouse (which will house plant maintenance equipment and supplies, and shops such as machine, paint, welding, and electronic);
- Materials warehouse (which will store equipment, reagents, etc.);
- Electrical building(s) (which will house motor control centers, electric power switchgear and metering to provide power for plant operations):
- Emergency generator building:
- Two reagent storage and preparation buildings:
- Chemical laboratory building (which will contain a wet chemistry laboratory and analytical instruments for analysis of in-process and finished products);
- Filter press sheds (which will house filter presses);
- Lithium product production building (which will house the proprietary technology for manufacturing the lithium carbonate and lithium hydroxide products);
- Lithium product handling, packaging, and warehouse buildings (which will house the filtration and drying equipment for the lithium products and bagging and palletizing of finished products);
- Manganese product handling, production, and warehouse building (which will house the filtration and drying equipment for the manganese product and bagging and palletizing of finished products);
- Zinc product handling, production, and warehouse building (which will house the filtration and drying equipment for the zinc product and bagging, palletizing and storage of finished products);
- Calcium oxide silo and slacker:
- Limestone stockpile and solution tanks:

- Hydrogen chloride offloading and storage tank(s);
- Gate guard house; and
- Cooling tower.

The product production, handling, and warehouse buildings will be about 80 feet tall, and the various other components of the plant may be as high as 100 feet tall.

The sewage from the Project will be processed by the HR1 sewer treatment plant, hence no further permitting for solid waste is required. Potable water will be provided from the HR1 permitted water treatment plant via an agreement between HR1 and the ATLiS Plant. An application to modify the HR1 water treatment plant by using both the existing approved plant and the former Simbol plant will be made to EHS to HR1.

## **Impurity Removal and Production Extraction Facilities**

The impurity removal and the product extraction process areas will be constructed within designated areas of the plant site on concrete pads with a containment curb. These process areas may not be located within a building but will consist of a series of interconnected tanks and pipelines. The arrangement of these facilities is part of the Applicant's proprietary technology.

## **Product Production Facilities**

Product production facilities consisting of a series of interconnected tanks and pipelines will also be constructed on the site. The processing facilities will also be erected within designated portions of the plant site on concrete pads with a concrete containment curb or in designated buildings. The arrangement of these facilities is also part of the Applicant's proprietary technology.

## **Pipe Rack and Process Pipelines**

A pipe rack will be constructed from the Project's process area to the HR1 site. A post clarifier brine delivery pipeline from HR1 to the Project's process area and a depleted brine return pipeline from the process area to HR1 will be constructed on one or more pipe racks. A steam/steam condensate delivery pipeline will also be constructed on the pipe rack. The Project will be responsible for returning the depleted barren brine to the HR1 site. Additional delivery or return pipelines may also be constructed onto the pipe rack as needed to handle the different fluids transported. The delivery and return pipelines will be constructed with minimal usage of flanged connections to reduce the potential for pipe leaks. Automatic valves will be integrated into the pipeline system which would close quickly in the event of a pipe rupture to minimize the size of any potential spill. An Emergency Response Plan will be prepared and implemented should a fluid spill event occur.

## Fire Water and Freshwater Pond

The Project will share with HR1 the fire suppression system, and the freshwater storage containment pond. The fire suppression system will be re-designed to accommodate the overall fire protection obligation to both plants along with the necessary controls. The raw water storage pond currently located on the east side of the HR1 plant will continue to receive canal water from the IID "O" lateral. However, a backup delivery line will also be installed from the "N" lateral located about ¼ mile south of the plant. This redundancy is necessary for two reasons, first when IID does maintenance work on canals they can be out of service for several days and second in the event of a natural interruption such as an earthquake that may render the "O" lateral out of service. The Imperial County Fire Department will be consulted as appropriate to review and approve the proposed fire water and freshwater pond facilities. A 500,000-gallon above-ground water tank will be constructed to serve as the primary water supply for the joint fire suppression system for the HR1 and ATLiS sites.

## **Stormwater Retention Basin**

The Project may share the HR1 stormwater retention basin. The retention basin will be engineered and constructed to contain the combined stormwater storage requirements of both the HR1 and Project plant sites. If a shared facility cannot be done for technical, legal or other reasons then the Project will construct its own basin on the far south side of the parcel. The current HR 1 Plant site was constructed to eliminate any off-site discharge and this site will be designed in the same manner.

## Security Fence and Landscaping

A nominal six-foot-high chain-link security fence, which may be topped with three-strand barbed wire, will be constructed around the Project plant site. The fence will be constructed to meet County standards for obscured fencing around processing areas. Due to security levels required for the HR1 power plant and because of the interconnectivity between HR1 and the Project, security protocols for both HR1 and the Project will be similar in nature.

## **Substation and Power Line Facilities**

Up to 8 MW of electrical power will be needed for the Project operations. The power will be purchased from the IID. The Project will construct an electrical substation on the Project site. An emergency 600 HP diesel generator(s) will be used to keep vital Project plant systems operating during power outages.

## **Road Improvements**

At the junction of McDonald Road and HWY 111, improvements will also be constructed to meet the requirements of the County and the California Department of Transportation (Caltrans). As currently planned these improvements will include:

- Relocation of the IID drain exit structure on the west side of HWY 111
- Relocation of the IID canal gates on the west side of HWY 111
- Northbound left turn lane on HWY 111 (or as required by an approved Traffic Study)
- Southbound right turn lane on HWY 111 (or as required by an approved Traffic Study)

A short power line will be constructed between the current IID/HR1 switchyard and the plant site along McDonald Road to the Project site.

#### D. PROJECT CONSTRUCTION

Construction will include light grading of approximately 30 acres of land that will include the Project site, new entry road off of McDonald Road, an emergency access road off of Davis Road, and a connection to the IID/HR1 electric substation. The Project site driveway, parking, and maneuvering areas will be constructed to County standards (generally a minimum of three inches of asphaltic concrete paving or higher quality material).

The Project will either be constructed to an elevation above the Imperial County designated special flood hazard for lands near the Salton Sea, or have the existing berm extended to the outer perimeter of the site. The Project will be constructed so that no off-site discharge of any waters will be allowed and all of the runoff or discharge will be managed on site.

It is estimated that on average 20-25 trucks per day will travel in and out of the Project site during construction except during grading when about 50-60 trucks will be traveling in and out of the Project site. An average of 100 workers will commute to the Project site during construction.

## **Construction Work Force and Schedule**

Project construction would begin when all necessary permits are obtained, expected to be Quarter Three (Q3) of 2021. Construction is expected to be complete Quarter Two (Q2) of 2023. All work would occur in one phase, with approximately 90% of work occurring during daylight hours over 5 or 6 days per week over an intermittent 24-month period. The remaining 10% of work would occur during nighttime hours to avoid extreme summer temperatures. Approximately 200 to 250 workers are anticipated at peak periods. Construction workers will commute to the site and there will be no onsite housing of workers. Construction parking will be in the 15 acre laydown area, which will be located at the southeast corner of Davis Road and McDonald Road on what is currently APN 020-100-025.

## **Construction Equipment**

Below is a list of construction equipment anticipated to be required for the Project:

- Off-highway trucks
- Rollers
- Crawler tractors
- Excavators
- Graders
- Water trucks
- Compactors
- Rubber tired loaders
- Scrapers
- Cranes
- Generator sets

- Concrete pump
- Plate compactors
- Rough terrain forklifts
- Skid steer loaders
- Tractor/Loader/Backhoe
- Aerial lifts
- Welders
- Air compressors
- Pavers
- Paving equipment

## **Construction Water Supply Source and Requirements**

It is estimated that up to 50,000 gallons per day of water will be needed during Project construction for fugitive dust control during Project site grading and construction activities. This water will be purchased from the IID and will be transported to the site via temporary pipeline or via water truck. A Water Supply Assessment is being prepared for the Project to analyze the impacts associated with the Project's construction and operational water requirements.

## E. PROJECT OPERATIONS

The Project's plant will utilize post-secondary clarifier brine produced from the geothermal fluid management activities on the neighboring HR1 power plant site as the resource process stream for the commercial production of lithium hydroxide monohydrate (LIOH), and zinc and manganese products. The production operations will consist of the following general processing steps:

- 1. Impurity removal
- 2. Lithium extraction as Lithium Chloride (LiCl)
- 3. Conversion and processing of LiCl to Lithium products
- 4. Drying and packaging of lithium products
- 5. Zinc extraction and processing to Zinc products
- 6. Manganese extraction and processing to manganese products
- 7. Offsite product shipping

The production processing steps may be altered over time as production methods and efficiencies evolve and new or revised product lines are developed at the facility. The arrangement of the processing equipment is part of the proprietary technology developed for the Project.

## Impurity Removal

Post heat extraction geothermal brine from the secondary clarifier of the HR1 power plant site will be transported via pipeline to the impurity removal process area on the ATLiS plant site. A nominal 7,000 gallons per minute (gpm) of the brine will be processed by the facility. This projected process rate is used as the basis for the estimate provided throughout this Project description, but the actual rate of brine eventually processed on the site will be optimized to take advantage of the available facilities on the HR1 and ATLiS plant sites.

Iron (Fe) and silica (SiO2) will be removed from the brine followed by the removal of the manganese (Mn) and zinc (Zn) in a two-stage process. The separated Fe-SiO2 material, and the Mn-Zn material will be dewatered in the Filter Press sheds. The mineral depleted brine will then be transported via pipeline to the Lithium (Li) Extraction process area.

The separated Fe- SiO2 material will be initially managed as a waste stream. The waste material will be collected and analyzed in conformance with appropriate laboratory testing protocols to ensure that it is handled and disposed of in an appropriate manner.

If and when in the future, opportunities exist to use this material, the Applicant plans to market Fe- SiO2 material as an additional product(s) to be shipped to a third party(ies) for use in other industrial processes, and it will no longer be a waste but a product. The market for Fe- SiO2 material is currently being developed. Based on average production rates at the target nominal process rate of 7,000 gmp, approximately 136,200 metric tons of Fe- SiO2 material will be processed annually.

## Li Extraction as Lithium Chloride

The treated brine will be fed to a Li extraction process located within the Li extraction process area on the ATLiS plant site. This area will be outside on a concrete pad. The area will contain proprietary Li extraction media. Li from the brine will be retained on the extraction media. A lithium chloride (LiCl) product stream will be produced from the extraction process. The LiCl will be transported via pipeline from the Li extraction area into the Li purification process area. Impurities will be removed from the LiCl product stream and handled as nonhazardous waste. The purified LiCl will then be concentrated in an evaporator or equivalent process.

## Conversion and Processing of LiCl into Li Products

The purified, concentrated LiCl will be transported via pipeline from the Li purification area to the Li Product Production Building. Proprietary technology will be used to convert the LiCl and then into lithium carbonate (Li2CO3) and then into LiOH product stream.

## **Drying and Packaging of Li Products**

The lithium hydroxide (LiOH) product stream will be transported to a Lithium Product Handling, Production and Warehouse building where the crystals will be separated from the Li-rich process fluid in a dewatering system. LiOH crystals will be dried, sized, and cooled.

## Packaging of the Li Products

The dried Li products will be packaged, palletized, staged, and loaded into trucks for distribution in the Li Product Handling, Production, and Warehouse buildings. The dried Li products will be loaded into bulk bags in a bagging station. Packaging is expected to be 500 kilograms (kg) to 1,000 kg super sacks.

## **Extraction of Zn and Mn**

Zn/Mn filter cake will be acid leashed, separated and purified in a two-part solvent extraction process. The separated steams will each then be dried and packaged for further processing by others.

## **Mn Extraction and Processing to Mn Products**

The Mn removed by the solvent extraction process will be precipitated into Mn oxides/hydroxides products, then dewatered in filter presses into wet cake product. The products will be transported to the Mn Product Handling, Production and Warehouse building for further handling, packaging, and offsite shipment to market.

## **Product Shipping to Offsite Markets**

The ATLiS plant may produce multiple products for offsite shipment to market by truck. The average annual amount of product shipped out of the ATLiS plant is estimated as 19,000 metric tons of Li product, 10,000 to 20,000 metric tons of Zn product(s), and up to 60,000 metric tons of Mn product(s). Products will be transported by freight truck on existing roadways to shipping distribution points. Other products of the production operations may be generated by the proprietary technology on the ATLiS plant site and would also be shipped offsite to market by truck. Trucking will generally be to markets in the greater Los Angeles basin, Arizona, and Texas.

## **Operational Truck Traffic**

It is estimated that approximately 24 trucks per day will travel in and out of the Project site during normal operations. The truck traffic includes about 10 trucks per day of outgoing products, including one truck load of dry lithium, two truckloads of 31% HCl, three truckloads of zinc, and four truckloads of manganese. Truck traffic also includes about eight truck deliveries of reagent chemicals; cooling tower treatment chemicals; consumptive media; product packaging materials; and fuel. The estimate also includes six trucks of outgoing waste generated on the site. The majority of the outgoing waste generated onsite is expected to be delivered to and processed at the Burrtec Solid Waste Facility. However, it is estimated that up to 10% of trucks carrying filter cakes (waste debris mix of silica, sand and iron) from the plant would be required to be delivered to a waste treatment facility in Arizona.

## **Operational Water Supply Source and Requirements**

Approximately 90,000 gallons per hour (g/h) or about 3,400 acre-feet per year (AFY) of canal water will be purchased from the IID for project cooling water makeup and additional process water. Approximately 112 g/h or about 3 AFY of the canal water to be purchased will be used for potable water purposes, including potable washbasin water, eyewash equipment water, water for showers and toilets in crew change quarters, and sink water in the sample laboratory. A Water Supply Assessment is being prepared for the Project to analyze the impacts associated with the Project's construction and operational water requirements.

## **Operational Plant Maintenance**

Operation of the Project would be dependent on the ability of the HR1 facility to deliver spent geothermal brine for processing at the ATLiS facility. Thus, approximately every three years the Project facility will be shut down for about three weeks to complete a facility cleaning in alignment with the HR1 plant cleaning. This process would remove mineral scale from Project plant piping.

## **Operational Work Force and Schedule**

Project operations will begin as soon as construction activities are completed, expected to be Q2 of 2023. Beginning with startup operations, the Project is expected to be operated by a total staff of approximately 62 full-time, onsite employees. Plant operations will continue 24 hours per day, 7 days per week. It is projected that up to 40 employees

will be onsite at any given time with 24 day-staff employees and two rotating shifts of 16 additional employees overlapping the day-staff and covering nights, weekend, and holidays.

## F. PROJECT DECOMISSIONING

The projected life of the Project is a nominal 30 to 40 years. The Applicant will prepare a Site Abandonment Plan in conformance with Imperial County requirements, for consideration by the Planning Commission prior to Project approval. This plan would describe the proposed equipment dismantling and site restoration program in conformance with the wishes of the respective landowners/lessors and Imperial County requirements in effect at the time of abandonment and would be implemented at the end of Project operations. Decommissioning activities would be similar to project construction activities; however, decommissioning is likely to be less intensive than construction. Because this phase would occur approximately 30 to 40 years into the future, decommissioning is anticipated to employ equipment that is more technologically advanced than that which will be used during construction. Further, there will be a reduction in the need for site preparation and associated activities.

## G. REQUIRED PERMITS AND APPROVALS

## Lead Agency Approval

Imperial County Planning Department would be the lead agency for the proposed Project. The following permits would be required from the lead agency:

- Imperial County Planning Department Minor Subdivision
- Imperial County Planning Department Water Supply Assessment
- Imperial County Planning Department Conditional Use Permit
- Imperial County Planning Department Development Agreement (if required)
- Imperial County Building Department Building and Grading Permits
- Imperial County Public Works Department Encroachment Permit(s)

## **Reviewing Agencies**

#### State Agencies

- Caltrans Encroachment Permit
- California Department of Toxic Substances/Certified Unified Program Agency (CUPA) Hazardous Materials / Environmental Protection Agency Approvals and Permits

## Regional Agencies

- Regional Water Quality Control Board Water Discharge Requirement
- Imperial Irrigation District Encroachment Permit
- Imperial County Air Pollution Control District Permit to Construct and Permit to Operate
- Environmental Health Departments for HR1 Potable Water Treatment Modified Permit
- Imperial County Public Works
- Imperial County Fire Department and Office of Emergency Services

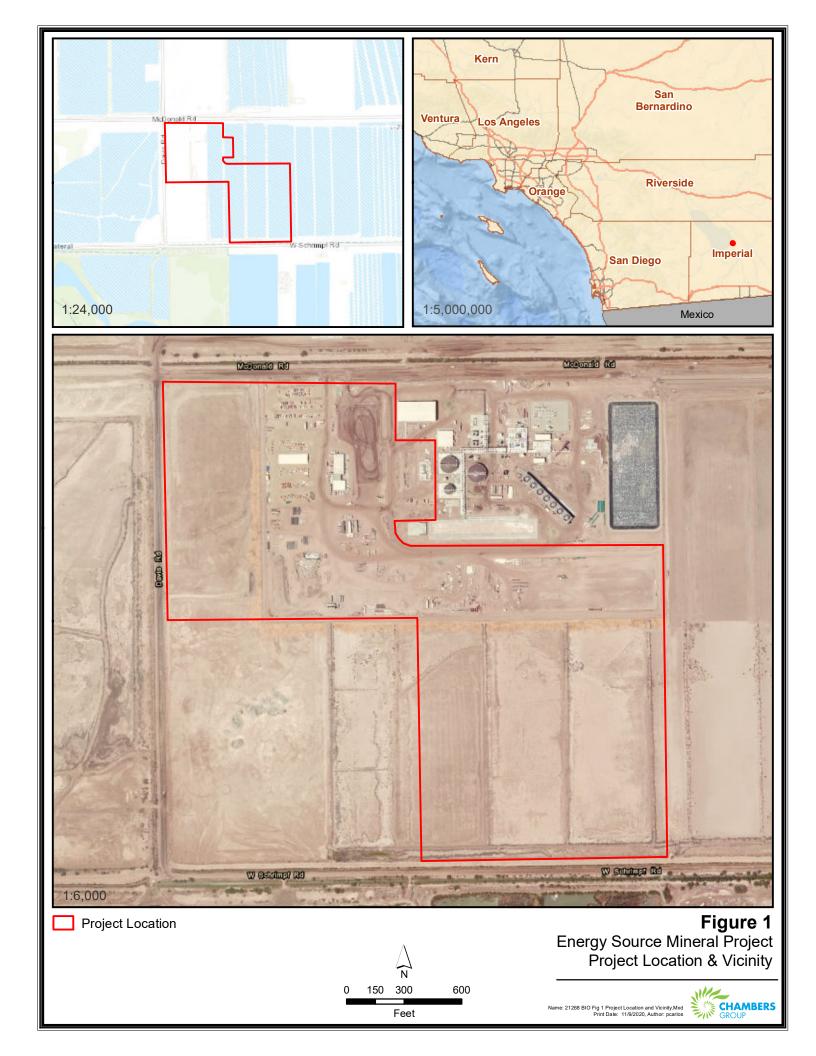
## H. OBJECTIVES

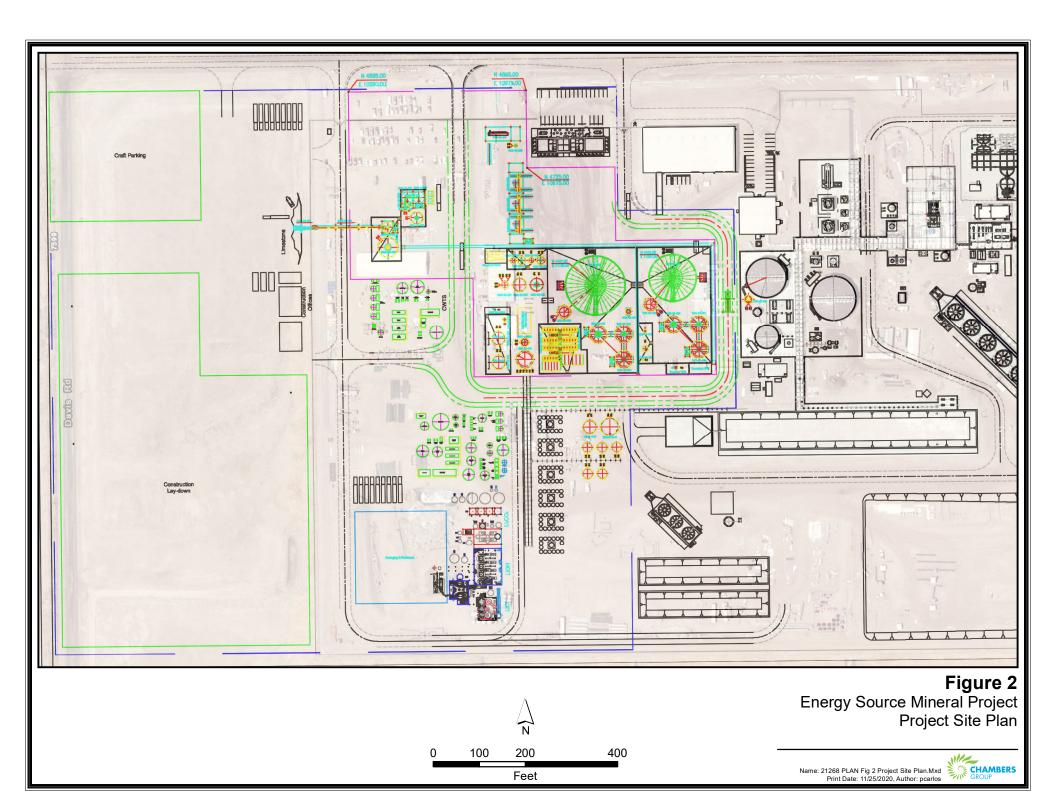
The Project has the following objectives:

- To produce quantities of lithium, manganese, zinc and other strategic minerals from geothermal brine for commercial sale.
- To co-locate near a geothermal flash plant to minimize the distance required to pipe the brine between the

- geothermal plant and the mineral extraction plant.

  To provide a supplemental domestic source of lithium, a designated critical material identified by the U.S. Department of Energy.
- Minimize and mitigate any potential impact to sensitive environmental resources within the Project area.





## **EVALUATION OF ENVIRONMENTAL IMPACTS:**

- A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the 1) information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors as well as general standards (e.g., the project will not expose sensitive receptors to pollutants, based on a project-specific screening analysis).
- 2) All answers must take account of the whole action involved, including off-site as well as on-site, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.
- 3) Once the lead agency has determined that a particular physical impact may occur, then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.
- 4) "Negative Declaration: Less Than Significant With Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less Than Significant Impact." The lead agency must describe the mitigation measures, and briefly explain how they reduce the effect to a less than significant level (mitigation measures from "Earlier Analyses," as described in (5) below, may be cross-referenced).
- 5) Earlier analyses may be used where, pursuant to the tiering, program EIR, or other CEQA process, an effect has been adequately analyzed in an earlier EIR or negative declaration. Section 15063(c)(3)(D). In this case, a brief discussion should identify the following:
  - a) Earlier Analysis Used, Identify and state where they are available for review.
  - b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.
  - c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures which were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.
- 6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated.
- Supporting Information Sources: A source list should be attached, and other sources used or individuals 7) contacted should be cited in the discussion.
- 8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.
- The explanation of each issue should identify: 9)
  - a) the significance criteria or threshold, if any, used to evaluate each question; and
  - b) the mitigation measure identified, if any, to reduce the impact to less than significance

|                                       |  | Potentially<br>Significant<br>Impact<br>(PSI)  | Significant Unless Mitigation Incorporated (PSUMI)   | Less Than<br>Significant<br>Impact<br>(LTSI)   | No Impact<br>(NI)  |
|---------------------------------------|--|--|--|--|--|
| I. <b>AE</b>                          | STHETICS   |  |  |  |  |
| Excep                                 | t as provided in Public Resources Code Section 21099, would the p  | project:   |  |  |  |
| a)                                    | Have a substantial adverse effect on a scenic vista or scenic highway?   |  |  |  |  |
| b)                                    | Substantially damage scenic resources, including, but not limited to trees, rock outcroppings, and historic buildings within a state scenic highway?   |  |  |  | $\boxtimes$  |
|                                       | a) and b) No Impact. The Project is not located within the viewsh (Caltrans 2019). The closest scenic viewpoint is an observation Refuge, approximately 3 miles southwest of the Project site (US covered marsh and the Alamo River separate the viewpoint from to for the observation deck. Additionally, HWY 111 is listed by Caltrimiles east of the Project site. Though, HWY 111 has not been off Beach to the Imperial County-Riverside County line, approximate 2019). Further, the site is void of any trees, rock outcrops, or hist as a result of the Project. No impacts would occur to scenic vist analysis is required.   | n deck located w<br>FWS 2019). Alth<br>he Project site; thans as eligible for<br>icially designated<br>by 13 miles north<br>oric buildings and | ithin the Sonny Bono Sough the area is relatively, the Project site would state scenic highway of and the eligible section west of the Project site at therefore, no scenic re | Salton Sea National Sea Nationa | onal Wildlife<br>nsive shrub-<br>ne viewshed<br>is located 3<br>om Bombay<br>int (Caltrans<br>be damaged |
| c)                                    | In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surrounding? (Public views are those that are experienced from publicly accessible vantage point.) If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?  c) No Impact. The Project is located on a vacant, non-urbanize as vacant desert land. Public viewers of the Project site would be farm to the southeast, and any passersby on nearby roads. There In addition, construction of the Project would be temporary occu operations will be consistent with current views of the area, whic substantially degrade the existing visual character or public view further analysis is required.  | e limited to worked<br>are no residence<br>rring from approx<br>th includes the ne   | ers at HR1 power plant,<br>es or recreation areas in<br>imately Q3 of 2021 to G<br>eighboring HR1 power p  | workers at the proximity of the Q2 of 2023. View blant. The Project  | aquaculture<br>Project site.<br>s of Project<br>ct would not   |
| d)                                    | Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?   |  |  | $\boxtimes$  |  |
|                                       | d) Less Than Significant Impact. As part of the Project des operations and safety purposes. Lighting would be covered and avoid backscatter. Nighttime illumination features for the Project lighting would only be activated when needed. In addition, the Probeing a residence over 1 mile north of the Project site on Pou proposed Project, would not be significant when compared to the from operation of the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility would be less than significant when compared to the proposed facility when compared to the proposed facility when th | directed downwar<br>to would be controject is in a rural a<br>nd Road. Industr<br>existing uses on   | d (downshielded) or tow<br>folled with sensors or stage of the County with the level lighting that we<br>the site. Impacts related   | vards the propos<br>witches operate<br>he closest sensit<br>ould be associa  | ed facility to<br>ed such that<br>tive receptor<br>ted with the  |
| II.                                   | AGRICULTURE AND FOREST RESOURCES   |  |  |  |  |
| Agricu<br>use in<br>enviro<br>the sta | ermining whether impacts to agricultural resources are significa<br>altural Land Evaluation and Site Assessment Model (1997) prepared<br>assessing impacts on agriculture and farmland. In determining who<br>not not provided to the forest land, including the Forest and Range Asse<br>on measurement methodology provided in Forest Protocols adopted  | I by the California<br>ether impacts to<br>by the California I<br>ssment Project a   | Department of Consent<br>forest resources, includ<br>Department of Forestry<br>and the Forest Legacy A   | vation as an opti<br>ling timberland,<br>and Fire Protec<br>ssessment proje  | ional model to<br>are significant<br>tion regarding<br>ect; and forest                                   |
| a)                                    | Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?  a) No Impact. According to the California Department of Consel is a combination of "Urban and Built-Up Land" and "Other Land"   |  |  |  |  |

Potentially

No Impact Impact Incorporated Impact (PSUMI) (PSI) (LTSI) (NI) Statewide Importance is located within or in proximity to the Project site. The County General Plan designates the Project site as Agriculture land use; however, according to the General Plan Land Use Element, a non-agricultural land use may be permitted within General Plan-designated agricultural land if the use does not conflict with agricultural operations and will not result in the premature elimination of agricultural operations (County 1993). There is no existing agricultural land on the Project site, thus the Project would not conflict with or eliminate agricultural operations. Historically there were agricultural operations on the Project site, but the conversion of this agricultural land to another use was analyzed as part of the 2007 Hudson Ranch Power I Project and determined to be below the level of CEQA significance. No impacts would occur and no further analysis is required. Conflict with existing zoning for agricultural use, or a X Williamson Act Contract? b) No Impact. The Project site is zoned M-2 and is located within the geothermal overlay zone (G) and pre-existing allowed/restricted overlay zone (PE). No land within the Project site is zoned for agricultural use and the Project was considered consistent with the site zoning with the approval of the Conditional Use Permit in June 2020. The Project site is not subject to the provisions of a Williamson Act contract (DOC 2018). No impacts would occur and no further analysis is required. 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  $\boxtimes$ 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))? Result in the loss of forest land or conversion of forest land to  $\boxtimes$ non-forest use? c) and d) No Impact. As previously mentioned, the Project site is zoned M-2-G-PE. No land within the Project site is zoned forest land or timberland and there is no existing forest land on the Project site or in the immediate vicinity. The Project would not result in the loss of forest land or the conversion of forest land to non-forest use: no impacts would occur and no further analysis is required. Involve other changes in the existing environment which, due to their location or nature, could result in conversion of  $\boxtimes$ Farmland, to non-agricultural use or conversion of forest land to non-forest use? e) No Impact. The Project site is zoned M-2-G-PE and does not contain agricultural land or forest land. The Project would not result in the conversion of agricultural land or forest land. No impacts would occur and no further analysis is required. III. AIR QUALITY Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to the following determinations. Would the Project: Conflict with or obstruct implementation of the applicable air quality plan? a) Potentially Significant Impact. The Project is located within the Salton Sea Air Basin (SSAB) and is subject to the jurisdiction of the Imperial County Air Pollution Control District (ICAPCD) Rules and Regulations (CARB 1999). The ICAPCD is charged with upholding ambient air quality standards set forth by the state and federal government for the area within its jurisdictional limits. The ICAPCD also serves as a regional authority to legally enforce air pollution regulations related to the release of toxic and hazardous emissions. The Project has potential to create emissions during construction and operation including dust, fumes, equipment exhaust, and other air contaminates that could conflict with the ICAPCD Rules and Regulations as well as the County's Air Quality Attainment Plan. To limit impacts during site construction, the Project will implement a dust control plan consisting of dust-reducing Best Management Practices (BMPs). Some of these BMPs include frequent watering of the Project site during construction activities and limiting vehicle traffic to 15 miles per hour on unpaved onsite access roads. In addition, the Project would comply with the applicable ICAPCD regulations including but not limited to Rule 801, Rule 803, Rule 804, and Rule 805 (ICAPCD 2020). During Project operations small quantities of criteria air pollutants, criteria air pollutant precursors, and hazardous air pollutants would be released during extraction, processing, and packaging activities. Additionally, the Project will utilize a backup diesel generator. Other

than emergency uses, regular tests will be conducted in accordance with operational requirements. A Permit to Construct and a Permit to Operate would be obtained, as required by ICAPCD, for the facility's stationary air pollutant emission sources and air pollutant control equipment. Warehouse and yard vehicles (forklifts and manlift) would be propane-powered to minimize combustion emissions from these non-stationary sources. Moreover, the Project will utilize a small cooling tower designed to minimize particulate emissions.

Potentially

Significant

**Unless Mitigation** 

Less Than Significant

Potentially

Significant

(PSI) (PSUMI) (LTSI) (NI) Although Project emissions may be reduced through the use of pollution control devices and dust control measures, Imperial County is currently designated as a serious nonattainment area for PM10 (CARB 2019), and therefore potentially significant impacts may still result and impacts will be further addressed in the EIR. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment  $\boxtimes$ under an applicable federal or state ambient air quality standard? b) Potentially Significant Impact. Currently, the SSAB is either in attainment or unclassified for all federal and state air pollutant standards with the exception of ozone (O3) and total suspended particulate matter less than 2.5 microns in diameter (PM2.5) and 10 microns or less in diameter (PM10). SSAB is in federal and state nonattainment for ozone and PM10, and partially in federal nonattainment for PM2.5 (CARB 2019). As mentioned above, both Project construction and operations have the potential to create emissions that could result in a cumulatively considerable net increase of a criteria pollutant for which the Project region is in nonattainment, namely O3, PM10, and PM2.5. Project emissions may be reduced through the use of pollution control devices and dust control measures previously discussed, but a potentially significant may still result. Thus, impacts are considered potentially significant and will be addressed in the EIR. Expose sensitive receptors to substantial pollutants  $\boxtimes$ c) Less Than Significant Impact. The Project is located in a rural area of the County and is not in close proximity to any sensitive receptors such as residences, hospitals, or schools. The closest residence is over a mile north of the Project site along Pound Road, the closest school is approximately 4 miles southeast of the Project site, and the closest hospital is approximately 16 miles south of the Project site (Google 2020). Approximately 62 full-time employees are expected to be working onsite, but these employees will be provided the proper personal protective equipment (PPE) and training in accordance with Occupational Safety and Health Administration (OSHA) regulations to protect them from substantial pollutant concentrations. A less than significant impact is expected to result, but these issues will be evaluated further in the EIR. Result in other emissions (such as those leading to odors X adversely affecting a substantial number of people)? d) Less Than Significant Impact. As mentioned above, the Project is located in a rural area of the County and is not in close proximity to any sensitive receptors with the closest residence over a mile north of the Project site along Pound Road, the closest school approximately 4 miles southeast of the Project site, and the closest hospital approximately 16 miles south of the Project site (Google 2020). Approximately 62 full-time employees are expected to be working onsite, but these employees will be provided the PPE and training in accordance with OSHA regulations. Any odors onsite are expected to only affect employees and are not anticipated to affect a substantial amount of people. Less than significant impacts are expected, but odors will be evaluated further in the EIR. IV. BIOLOGICAL RESOURCES Would the project: Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate,  $\boxtimes$ sensitive, or special status species in local or regional plans, П policies or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service? a) Potentially Significant Impact. The Project site is heavily disturbed from historic agricultural operations onsite and construction of the HR1 plant. Yet, the Project site is approximately two miles east of the Salton Sea, which serves as an important wintering and staging site for migratory birds and several endangered species populations. Biological surveys were conducted by biologists at Chambers Group, Inc. in November 2020. A Biological Technical Report is being prepared for the Project to identify the potential for endangered, threatened, sensitive or species of concern within the Project area; map habitats; and ascertain the probability of the presence of sensitive species onsite. Due to previous disturbance of the Project site, high quality habitat is not expected to exist onsite. However, impacts from the Project on migratory birds may be potentially significant and will be addressed in the EIR. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional  $\boxtimes$ plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service? Have a substantial adverse effect on state or federally  $\boxtimes$ 

Potentially

Significant

**Unless Mitigation** 

Incorporated

Less Than

Significant

Impact

No Impact

Potentially

Significant

Impact

Potentially Significant Potentially Less Than Unless Mitigation Significant Significant Impact Incorporated Impact No Impact (PSI) (PSUMI) (LTSI) (NI)

protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

b) and c) Less Than Significant Impact. According to the U.S. Fish and Wildlife Service's National Wetland Inventory, the Project site does not contain any wetland or riparian habitat. The closest potential wetland and riparian habitats include freshwater emergent wetlands and the Alamo River, which is likely to have riparian habitat along its banks, located approximately 1 mile southwest of the Project site (USFWS 2020). The Project site is approximately 500 feet north of IID canals and agricultural drains that flow into these wetlands and the Alamo River; however, to prevent offsite impacts to nearby wetlands resulting from stormwater runoff during construction the Project would be required to obtain coverage under a Construction General Permit to comply with National Pollutant Discharge Elimination System (NPDES) requirements. Compliance with the Construction General Permit would require the development and implementation of a Stormwater Pollution Prevent Plan (SWPPP) and associated BMPs. These BMPs will include measures that would be implemented to prevent discharges into adjacent wetland and riparian habitat from the Project site during construction activities.

|     | To prevent significant impacts to the nearby wetland and riparian I a stormwater retention basin will be developed on site. The Project the basin is engineered and constructed to contain the combined sites. If a shared basin cannot be done for technical, legal, or other the far south side of the parcel. Overall, impacts to wetland and riparand no further analysis is required.  | will likely share<br>stormwater stora<br>r reasons then t  | the HR1 stormwater retage requirements of both the Project will construct  | ention basin and<br>the HR1 and<br>t its own, separ  | id will ensure<br>Project plan<br>ate basin o  |
|-----|---|--|--|--|--|
| d)  | Interfere substantially with the movement of any 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?  d) Potentially Significant Impact. The Project site is heavily dis HR1 plant. Additionally, there are no identified wildlife corridors withe Project site is approximately two miles east of the Salton Sea, which is and several endangered species populations. A Biological potential for native or migratory wildlife within the Project area; ma species onsite. Due to previous disturbance of the Project site, hig Project on migratory birds, may be potentially significant and will be | thin the Project<br>which serves as<br>Technical Repo<br>p habitats; and a<br>h quality habitat                                  | site (County 1993). How<br>an important wintering a<br>ort is being prepared for<br>ascertain the probability<br>is not expected to exist.   | vever, as menti<br>nd staging site<br>r the Project to<br>of the presence  | ioned above<br>for migratory<br>o identify the<br>e of sensitive   |
| e)  | Conflict with any local policies or ordinance protecting biological resource, such as a tree preservation policy or ordinance?  |  |  | $\boxtimes$  |  |
| f)  | Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?   |  |  | $\boxtimes$  |  |
|     | e) and f) Less Than Significant Impact. The County Gener conservation of native habitat of sensitive plants and animals throwill ensure their long-term protection and survival. As mentioned a not expected to contain high quality native habitat. However, Conservation Plan (DRECP) boundaries which aims at protect processes and allowing for the development of a significant amour facilities, which will also require transmission lines) by focusing on is to identify areas in the desert appropriate for the utility-scale de Project does not include the development of such energy projects, with the DRECP. Impacts to native habitat of sensitive plants and a no further analysis is required.            | bugh the dedicated bove, the Project site ing irreplaceable of centralized areas with the leevelopment of with the Project would | ion of open space ease<br>ct site is highly disturbed<br>is located within the<br>e desert habitats, plan<br>renewable energy (from<br>east ecological impact. B<br>ind, solar, and geothern<br>d neither conflict with no | ements, or other<br>d from previous<br>Desert Renew-<br>ts, animals an<br>solar, wind and<br>decause the DR<br>mal energy proj<br>or does it require | r means that suses and is uses and is able Energy and ecological discontinuous economics. ECP's intensects and the ecompliance |
| CUL | TURAL RESOURCES Would the project:  |  |  |  |  |
| a)  | Cause a substantial adverse change in the significance of a historical resource pursuant to §15064.5?   | $\boxtimes$  |  |  |  |

٧.

|      |    |  | Potentially<br>Significant<br>Impact<br>(PSI)   | Significant Unless Mitigation Incorporated (PSUMI)  | Less Than Significant Impact (LTSI)  | No Impact   |
|------|----|--|---|---|--|---|
| =    | b) | Cause a substantial adverse change in the significance of an archaeological resource pursuant to §15064.5?   | (F3I)   | (F30WI)   |  |   |
|      |    | a) and b) Potentially Significant Impact. Unrecorded subsurface by minor grading of the Project site and installation of footings fou will be prepared for the Project detailing the results of an archae survey of the Project site. Further analysis of the historical and archae  | r to six feet belov<br>ological literature  | w the ground surface. A review, records search  | Cultural Resou<br>h, and intensive   | rces Report pedestrian  |
|      | c) | Disturb any human remains, including those interred outside of dedicated cemeteries?   | $\boxtimes$   |   |  |   |
|      |    | c) Potentially Significant Impact. The Project is not expected<br>potential to find human remains exists. A Cultural Resources F<br>archaeological literature review, records search, and intensive p<br>impacts to human remains is required and will be addressed in the   | Report will be procedestrian surve  | epared for the Project  | detailing the re   | sults of an   |
| VI.  | EN | ERGY Would the project:  |   |   |  |   |
|      | a) | Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?   |   |   |  |   |
|      | b) | Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?   | $\boxtimes$   |   |  |   |
|      |    | Construction activities consume energy temporarily through the traffic. It is estimated on average 20 to 25 trucks per day will travel 50 to 60 trucks are anticipated. Approximately 200 to 250 workers equipment anticipated for the Project is listed in Section 2 D above the extent possible, including standard mitigation measures for County Air Pollution Control District (ICAPCD) CEQA Air Quality the ICAPCD's standard mitigation measures will reduce the amount   | to and from the care anticipated to e. The Project will construction con Handbook. The u  | construction site, except<br>be onsite during Project<br>Il use energy-conserving<br>abustion equipment rec<br>use of better engine tect                                    | t during grading to<br>tonstruction. C<br>g construction ecommended in to<br>thoology, in conju                            | when about construction quipment to he Imperial   |
|      |    | For operation of the ATLiS plant, up to 8 MW of electrical power line will be constructed to the ATLiS plant site from the current property. Electrically driven equipment including a power distribution steam/stream condensate and no condensable gas to the Proj distribution line from either the ATLiS electrical building or the IID/be used to keep vital plant systems operating during plant outage fueled vehicle travel for up to 62 full-time staff and approximately are estimated for outgoing waste generated on the site, which is e Facility. However, it is estimated that up to 10% of trucks carrying would be required to be delivered to a waste treatment facility out | IID/HR1 substated unit will be instead on unit will be instead to the control of | ion located near the not alled at the HR1 facility wer distribution unit will Further, a 600 HP ementions would also require ng to and from the Projivered to and processed | ortheast corner to deliver geother be provided progency diesel gere daily gasolineect site. Six of the dat the Burrtec St. | of the HR1<br>ermal brine,<br>hower via a<br>heration will<br>and diesel-<br>hese trucks<br>Solid Waste |
|      |    | Buildings onsite will be designed in accordance with the Californi for Residential and Nonresidential Buildings and the California Cenergy analysis will be prepared for the Project to quantify energy and consistency with applicable plans, policies, and regulations Impacts will be analyzed further in the EIR.  | Green Building St   | andards (CCR, Title 24<br>urther analysis of the Pr   | I, Part 11). Add<br>oject's energy c   | itionally, an<br>onsumption   |
| VII. | GE | COLOGY AND SOILS Would the project:  |   |   |  |   |
|      | a) | Directly or indirectly cause potential substantial adverse effects, including risk of loss, injury, or death involving:  |   |   |  |   |
|      |    | <ol> <li>Rupture of a known earthquake fault, as delineated on<br/>the most recent Alquist-Priolo Earthquake Fault Zoning<br/>Map issued by the State Geologist for the area or based<br/>on other substantial evidence of a known fault? Refer to<br/>Division of Mines and Geology Special Publication 42?</li> <li>Less Than Significant Impact. The Project site is not lo</li> </ol>  | Cated within an A   |   | ⊠ and the closest f  | iault zone is   |

Potentially

Impact Incorporated Impact No Impact (PSI) (PSUMI) (LTSI) (NI) the San Andreas fault zone approximately 13 miles northwest (DOC 2020b). However, the County General Plan shows that the potentially active Calipatria Fault runs underneath the Project site (County 1993). Despite a known earthquake fault within the Project site, all parcels encompassing the site have been previously graded and would not require excavation. Approximately 10,000 cubic yards of soil will be brought onsite to raise the elevation, but no significant ground disturbing activities that could directly cause rupture of the Calipatria Fault would occur during Project construction or operation. Further, no Project activities would indirectly cause rupture of any known earthquake faults in the area. Impacts would be less than significant. Strong Seismic ground shaking? 2) Potentially Significant Impact. As mentioned above, the Project site is not located within an Alquist-Priolo fault zone and the closest fault zone is the San Andreas fault zone approximately 13 miles northwest (DOC 2020b). However, the Project site is located within a seismically active area of Southern California and the County General Plan shows that the potentially active Calipatria Fault is underlying the Project site (County 1993). Additionally, approximately 62 full-time employees would be on the Project site 24 hours per day, 7 days a week. To lessen potential hazards related to seismic ground shaking, Project structures would be analyzed for earthquake loading during design, and would be designed in accordance with the 2019 seismic requirements provided in the California Building Code. A registered professional civil/geotechnical engineer will also prepare a geotechnical investigation of the Project site that includes comprehensive subsurface exploration, appropriate laboratory testing, and detailed evaluation of potential constraints to critical project structures. The geotechnical investigation and proposed site measures may prevent Project activities from exacerbating the risk of loss, injury, or death involving rupture of a known earthquake fault or seismic ground shaking; however, further analysis is required and these issues will be addressed in the EIR. Seismic-related ground failure, including liquefaction and seiche/tsunami? 3) Potentially Significant Impact. The Project site is not located within a Department of Conservation identified liquefaction zone, but the County General Plan identifies that liquefaction is a common hazard in the County due to geologically young, unconsolidated sediments of the Salton Trough (DOC 2020b; County 1993). Soils on the Project site are also majority wet Imperial silty clay, which may be susceptible to ground failure (USDA 2020). Additionally, approximately 62 full-time employees would be on the Project site 24 hours per day, 7 days a week. As mentioned above, a registered professional civil/geotechnical engineer will prepare a geotechnical investigation of the Project site. Impacts involving seismic-related ground failure require further analysis and will be addressed in the EIR. Landslides? X 4) No Impact. The Project site is flat and is not located within an identified landslide zone (DOC 2020b). According to the County General Plan, the closest area of landslide activity is on the border of San Diego and Imperial Counties approximately 30 miles west of the Project site (County 1993). The Project would not exacerbate the risk of loss, injury, or death involving landslides. No impacts would occur and no further analysis is required. Result in substantial soil erosion or the loss of topsoil? b) Less Than Significant Impact. Project construction and operations have the potential to result in soil erosion and loss of topsoil mainly through increasing impervious surfaces onsite and increasing vehicle and foot traffic onsite. All parcels encompassing the Project site have been previously graded and would not require excavation. Approximately 10,000 cubic yards of soil will be brought onsite to raise the elevation and approximately 55 acres of the Project site would be permanently disturbed by the Project. The Project would implement standard industry methods, such as BMPs, to prevent surface runoff and erosion where applicable. These BMPs would comply with the County Building & Grading Regulations and the SWPPP developed for the Project. Moreover, a Drainage and Grading Plan will be submitted to the County to ensure implementation of all required BMPs. Impacts related to soil erosion would be less than significant and no further analysis is required. Be located on a geologic unit or soil that is unstable or that would become unstable as a result of the project, and  $\boxtimes$ П potentially result in on- or off-site landslides, lateral spreading, subsidence, liquefaction or collapse? Be located on expansive soil, as defined in the latest Uniform Building Code, creating substantial direct or indirect risk to life  $\boxtimes$ П or property? c) and d) Potentially Significant Impact. As previously discussed, the Project site is flat and is not located within a Department of Conservation identified liquefaction or landslide zone (DOC 2020b). However, the County General Plan identifies that liquefaction is a common hazard in the County (County 1993). Soils on the Project site are also majority wet Imperial silty clay, which may be susceptible to soil instabilities causing subsidence, liquefaction, and expansion (USDA 2020). A registered professional civil/geotechnical engineer will prepare a geotechnical investigation of the Project site that includes comprehensive subsurface exploration, appropriate laboratory

testing, and detailed evaluation of potential constraints to critical project structures, including liquefaction, subsidence, and expansive

Potentially

Significant

**Unless Mitigation** 

Less Than

Significant

Potentially

Significant

| Significant   Impact   Unless Mitigation   Significant   Impact   Impact   (PSI)   Impacted   Impact   Impact   (PSI)   Impacted   Impact   Impact   (PSI)   Impacted   Impact   (PSI)   Impacted   Impact   (LTSI)  | No Impact   |
|--|---|
| e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?  e) No Impact. During construction of the Project, portable toilets would be provided for construction workers and wast transported offsite to a sanitary water treatment plant. Sewage generated during Project operations would be processed by HR1 sewer treatment plant adjacent to the Project site which as discussed in Section XIX Utilities and Service Systems, he capacity. No new septic tanks or alternative waste water disposal systems will be constructed as a result of the Project impacts would occur and no further analysis will be required.  f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?  f) Potentially Significant Impact. Paleontological resources are typically impacted when earthwork activities, such excavation cut into geological deposits (formations) with buried fossils. The Project is anticipated to only require minor go installation of footings four to six feet below the ground surface. Moreover, the entire Project site development area has beer disturbed during early agricultural operations and during the construction of HR1. No paleontological resources are known the area. However, the potential to disturb unknown resources may still exist as, many paleontological fossil sites have been in Imperial County and have been discovered during construction activities. Further analysis is required and will be addre EIR.  VIII. GREENHOUSE GAS EMISSION Would the project:  a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the more indirectly, that may have a significant impact on the environment?  b) Conflict with an applicable plan or policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?  a) and b) Potentially Significant Impact. The primary climate change legislation in California is  | (NI)  |
| septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?  e) No Impact. During construction of the Project, portable toilets would be provided for construction workers and wast transported offsite to a sanitary water treatment plant. Sewage generated during Project operations would be processed by HR1 sewer treatment plant adjacent to the Project site which as discussed in Section XIX Utilities and Service Systems, he capacity. No new septic tanks or alternative waste water disposal systems will be constructed as a result of the Project impacts would occur and no further analysis will be required.  f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?  f) Potentially Significant Impact. Paleontological resources are typically impacted when earthwork activities, suclex excavation cut into geological deposits (formations) with buried fossils. The Project is anticipated to only require minor go installation of footings four to six feet below the ground surface. Moreover, the entire Project site development area has beer disturbed during early agricultural operations and during the construction of HR1. No paleontological resources are known the area. However, the potential to disturb unknown resources may still exist as, many paleontological fossil sites have been in Imperial County and have been discovered during construction activities. Further analysis is required and will be addre EIR.  VIII. GREENHOUSE GAS EMISSION Would the project:  a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?  b) Conflict with an applicable plan or policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?  a) and b) Potentially Significant Impact. The primary climate change legislation in California is Assembly Bill (AB) 32, the  |   |
| transported offsite to a sanitary water treatment plant. Sewage generated during Project operations would be processed by HR1 sewer treatment plant adjacent to the Project site which as discussed in Section XIX Utilities and Service Systems, he capacity. No new septic tanks or alternative waste water disposal systems will be constructed as a result of the Project impacts would occur and no further analysis will be required.  f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? f) Potentially Significant Impact. Paleontological resources are typically impacted when earthwork activities, such excavation cut into geological deposits (formations) with buried fossils. The Project is anticipated to only require minor goinstallation of footings four to six feet below the ground surface. Moreover, the entire Project site development area has beer disturbed during early agricultural operations and during the construction of HR1. No paleontological resources are known the area. However, the potential to disturb unknown resources may still exist as, many paleontological fossil sites have been in Imperial County and have been discovered during construction activities. Further analysis is required and will be addre EIR.  VIII. GREENHOUSE GAS EMISSION Would the project:  a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the may be a may be a significant impact on the more project indirectly, that may have a significant impact on the may be a significant impact on the may be a significant impact on the more project indirectly indirectly, that may have a significant impact on the significant impact in california is Assembly Bill (AB) 32, the                          | $\boxtimes$   |
| or site or unique geologic feature?  f) Potentially Significant Impact. Paleontological resources are typically impacted when earthwork activities, such excavation cut into geological deposits (formations) with buried fossils. The Project is anticipated to only require minor go installation of footings four to six feet below the ground surface. Moreover, the entire Project site development area has beer disturbed during early agricultural operations and during the construction of HR1. No paleontological resources are known the area. However, the potential to disturb unknown resources may still exist as, many paleontological fossil sites have been in Imperial County and have been discovered during construction activities. Further analysis is required and will be addre EIR.  VIII. GREENHOUSE GAS EMISSION Would the project:  a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the penvironment?  b) Conflict with an applicable plan or policy or regulation adopted for the purpose of reducing the emissions of greenhouse control in California is Assembly Bill (AB) 32, the promote that the project is anticipated when earthwork activities, such as the project is anticipated to not project is anticipate | the existing as available                                     |
| f) Potentially Significant Impact. Paleontological resources are typically impacted when earthwork activities, such excavation cut into geological deposits (formations) with buried fossils. The Project is anticipated to only require minor go installation of footings four to six feet below the ground surface. Moreover, the entire Project site development area has beer disturbed during early agricultural operations and during the construction of HR1. No paleontological resources are known the area. However, the potential to disturb unknown resources may still exist as, many paleontological fossil sites have been in Imperial County and have been discovered during construction activities. Further analysis is required and will be addre EIR.  VIII. GREENHOUSE GAS EMISSION Would the project:  a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the penvironment?  b) Conflict with an applicable plan or policy or regulation adopted for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the emissions of greenhouse continued for the purpose of reducing the formation of the purpose of redu  |   |
| <ul> <li>a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?</li> <li>b) Conflict with an applicable plan or policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?</li> <li>a) and b) Potentially Significant Impact. The primary climate change legislation in California is Assembly Bill (AB) 32, the</li> </ul>  | rading and<br>n previously<br>n to occur in<br>en recorded    |
| indirectly, that may have a significant impact on the environment?  b) Conflict with an applicable plan or policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?  a) and b) Potentially Significant Impact. The primary climate change legislation in California is Assembly Bill (AB) 32, the   |   |
| for the purpose of reducing the emissions of greenhouse  |   |
|  |   |
| Global Warming Solutions Act of 2006. AB 32 focuses on reducing greenhouse gas (GHG) emissions in California, and AB that GHGs emitted in California be reduced to 1990 levels by the year 2020. In addition to AB 32, Executive Order B-30-15 on April 29, 2015 that aims to reduce California's GHG emissions 40 percent below 1990 levels by 2030. In September 20 and Senate Bill (SB) 32 codified into statute the GHG emission reduction targets provided in Executive Order B-20-15.  | 32 required was issued  |
| Project construction activities are expected to emit GHGs including carbon dioxide (CO2), nitrogen oxides (NOx), and meth from the combustion of fossil fuels during the operation of gasoline and diesel-fueled construction equipment and vehicle anticipated construction equipment for the Project can be found in Section D of the Project Description above. Project would create new sources of particulate matter from drying, transfer, and packing lithium products; operation of the cooling maintenance, testing, and emergency operations of the emergency diesel engine-generator. The emergency diesel engine would also generate NOx, carbon monoxide (CO), PM, and sulfur dioxide (SO2). These emissions may potentially confapplicable plan, policy, or regulation for reducing the emissions of GHGs. Further analysis of potential impacts relate emissions generated by the Project, will be quantified and assessed in the EIR.  | es. A list of operations tower; and e-generator flict with an |
| IX. HAZARDS AND HAZARDOUS MATERIALS Would the project:   |   |
| a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?  |   |
| b) Create a significant hazard to the public or the environment through reasonable foreseeable upset and accident conditions involving the release of hazardous materials into the environment?  a) and b) Potentially Significant Impact. Construction of the Project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and temporary through the project would require the limited transport and the project would be project which the project which the project would be project which the pro | ron/ viac of  |

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materials deemed to be hazardous, including unleaded gasoline, diesel fuel, oil, lubricants (i.e., motor oil, transmission fluid, and hydraulic fluid), solvents, adhesives, and paint materials. However, any potentially hazardous materials used or found onsite during construction would be handled in accordance with state and federal regulations regarding the transport, use, and storage of hazardous materials.

Project operations would generate solid hazardous waste through geothermal brine processing, including iron-silica filter cakes, lead sulfide, and various laboratory wastes. Hazardous materials/waste generated by the Project would not be left on-site and will be transported to an approved hazardous waste landfill. The majority of the outgoing waste generated onsite is expected to be delivered to and processed at the Burrtec Solid Waste Facility. However, filter cakes generated during the impurity removal process may contain hazardous materials at higher levels than allowed at waste facilities in the state of California. These filter cakes will be tested and routed to the appropriate disposal location. It is estimated that up to 10% of trucks carrying hazardous waste from the plant would therefore be delivered to a waste treatment facility in Arizona or Idaho.

To prevent accidental release of hazardous materials, spill containment areas and sumps subject to spills of immiscible chemicals would be drained to a dilution water tank. Any oil contamination spills would be collected with absorbent pads and disposed as required by law. The Project site would be graded and constructed so that all process spills would drain into area drains that would be reprocessed into the system. Excess process spills would drain into the brine pond.

Additionally, an Emergency Response Plan (ERP) would be prepared and implemented, which will identify proper hazardous materials handling, use, and storage; emergency response; spill control and prevention; employee training; and reporting and record keeping. This would help to limit human risk and environmental risk associated with exposure to hazardous materials. Nonetheless, impacts from hazardous materials may occur and further analysis would be required. This issue will be addressed in the EIR.

|    | from hazardous materials may occur and further analysis would be   | e required. This i   | ssue will be addressed  | in the EIR.                         | ,pa.oto                       |
|----|--|--|---|-------------------------------------|-------------------------------|
| c) | Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?  c) Less Than Significant Impact. Although the Project has the substances, the Project site is not within one-quarter mile of an expression of the Elementary School, approximately 4 miles northeat implemented for the Project will limit human risk associated with schools in the area. Impacts would be less than significant and not the schools in the area. | existing or propos<br>st in Niland, CA.<br>exposure to haz | ed school. The closest<br>Additionally, the ERP tardous materials, with | school to the P                     | roject site is<br>repared and |
| d) | Be located on a site, which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?  d) Potentially Significant Impact. According to the Departmer Water Resources Control Board's GeoTracker Database, there a site (DTSC 2020; SWRCB 2020). However, due to the neighbor prepared to analyze the potential for contaminants within the Prequired and will be addressed in the EIR.    | are no recorded har<br>oring HR1 plant,                    | azardous material sites<br>a Phase I Environmen                         | within a mile o<br>tal Site Assessi | f the Project<br>ment will be |
| 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, would the project result in a safety hazard or excessive noise for people residing or working in the project area?  e) No Impact. The Project site is not located within two miles of airport land use plan. The closest airport is Calipatria Municipal Athe Project would not expose people working in the Project area further analysis is required.            | irport approximate   | ely 6 miles southeast o   | f the Project site                  | e. Therefore,                 |
| f) | Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?  f) Less Than Significant Impact. Temporary or single-lane cloequipment or construction activities. Road closures would be coor to closure, and would be scheduled to occur during off-peak or  | dinated with Cour  | ity Public Works, the Co  | ounty Sheriff, an                   | d ICFD prior                  |

would be in compliance with the Imperial County Emergency Operations Plan (EOP) and Multi-Jurisdiction Hazard Mitigation Plan (MJHMP), and would not physically interfere with the execution of the policies and procedures in these plans (County 2015; 2016).

Impact Incorporated Impact No Impact (PSI) (PSUMI) (LTSI) (NI) 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 and no further analysis is required. Expose people or structures, either directly or indirectly, to a  $\boxtimes$ П significant risk of loss, injury or death involving wildland fires? a) Less Than Significant Impact. The Seismic and Public Safety Element of the County General Plan states that the potential for a major fire in the unincorporated areas of the County is generally low (County 1993). According to the California Department of Forestry and Fire Protection's (CALFIRE) Fire Hazard Severity Zone Viewer, there are no very high, high, or moderate fire hazard severity zones in the local or state responsibility areas within 30 miles of the Project site (CALFIRE 2020). Additionally, the Project will include fire suppression systems designed in accordance with federal, state, and local fire codes; occupational health and safety regulations; and other jurisdictional codes, requirements, and standard practices. Included in the fire suppression system is a 500,000 gallon aboveground water tank to be installed onsite, serving as the primary water supply for the joint fire suppression system. In addition, during construction the Project site and access road will be cleared of all vegetation and cleared areas will be maintained throughout construction. Fire extinguishers will be available around the construction site as well. During operations, a brush control program will be prepared and implemented on those portions of the Project site that will not be developed. The Imperial County Fire District (ICFD) will be consulted to review and approve any and all proposed fire equipment, apparatus, and related fire prevention plans. Impacts would be less than significant and no further analysis is required. X. HYDROLOGY AND WATER QUALITY Would the project: Violate any water quality standards or waste discharge  $\square$ requirements or otherwise substantially degrade surface or ground water quality? a) Less Than Significant Impact. The Project site is located within the California Regional Water Quality Control Board's Colorado River Basin Region (RWQCB 2019). The Project is therefore subject to standards set forth in the Colorado River Basin's (Basin) Water Quality Control Plan. As previously mentioned, Project construction and operations would have the potential to result in soil erosion and runoff on and offsite mainly due to grading and increased impervious surfaces. Through implementation of a SWPPP and a Drainage and Grading Plan, the Project would implement standard industry BMPs and relevant Basin BMPs to control off-site discharges. Additionally, the Project would develop a stormwater retention basin, either shared with HR1 or independent, which would be engineered and constructed to contain any stormwater runoff. If a shared facility cannot be done for technical, legal, or other reasons then the Project will construct its own basin on the far south side of the parcel. Stormwater flows will be directed to the retention basin via ditches, culverts, and/or swales. As previously mentioned in Section IX, Hazards and Hazardous Materials, spill containment areas and sumps subject to spills of immiscible chemicals would be drained to a dilution water tank. Any oil contamination spills would be collected with absorbent pads and disposed as required by law. The Project site would be graded and constructed so that all process spills would drain into area drains that would be reprocessed into the system. Excess process spills would drain into the brine pond. The Project will not allow any offsite discharges that could violate water quality standards or waste discharge requirements, or otherwise substantially degrade surface or ground water quality. Impacts would therefore be less than significant and no further analysis is required. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project  $\boxtimes$ may impede sustainable groundwater management of the basin? b) Potentially Significant Impact. It is estimated that the Project would require up to 50,000 gallons of water per day during construction for fugitive dust control; approximately 90.000 gallons per hour for operational cooling and other processes; and approximately 112 gallons per hour for potable water purposes during operations. All water required for the Project would be purchased from the IID, whose only source of water is the Colorado River. IID operates no water wells or groundwater recharge areas due to the lack of rainfall and poor quality of groundwater resources in the area (IID 2017). However, a Water Supply Assessment will be prepared for the Project to analyze potential impacts to groundwater supplies in the area. Further analysis is required and would be included in the EIR. 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:

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**Unless Mitigation** 

Less Than

Significant

Potentially

Significant

|     |    |   | Potentially<br>Significant<br>Impact<br>(PSI)   | Potentially Significant Unless Mitigation Incorporated (PSUMI)  | Less Than<br>Significant<br>Impact<br>(LTSI)  | No Impact<br>(NI)  |
|-----|----|---|---|---|---|--|
|     |    | (i) result in substantial erosion or siltation on- or off-site;   |   |   |   |  |
|     |    | <ul> <li>substantially increase the rate or amount of surface<br/>runoff in a manner which would result in flooding on- or<br/>offsite;</li> </ul>  |   |   | $\boxtimes$   |  |
|     |    | <ul> <li>(iii) create or contribute runoff water which would exceed<br/>the capacity of existing or planned stormwater drainage<br/>systems or provide substantial additional sources of<br/>polluted runoff; or;</li> </ul>  |   |   | $\boxtimes$   |  |
|     |    | (iv) impede or redirect flood flows?  c) i) through iv) Less Than Significant Impact. No rivers or s Project site. The Alamo River is approximately 0.7 mile southwe south of the Project site (along Schrimpf Road) lead towards the Alamo operations would have the potential to result in soil erosion surfaces, through implementation of a SWPPP and a Drainage an and relevant Basin BMPs to control off-site discharges. Additional order to prevent substantial erosion resulting from high winds in Project site will be watered as necessary.  The western portion of the Project site, currently APN 020-100-(FEMA) 100-year floodplain (FEMA 2020). However, during cor   | est of the Project s<br>Alamo River and s<br>and runoff on ar<br>d Grading Plan, the<br>ally, a stormwater<br>the area, a Fugiti<br>025, is located w | site and drainage chang<br>surrounding wetlands. A<br>nd offsite due to grading<br>ne Project would implem<br>retention basin would be<br>ve Dust Suppression Pl<br>ithin the Federal Emerg | nels approximation of though Project of and increased ent standard induction developed or an will be preparency Managem | ely 500 feet<br>construction<br>impervious<br>lustry BMPs<br>a the site. In<br>red and the<br>ent Agency |
|     |    | approved for the HR1 site and an earthen flood protection berm v of APN 020-100-025, would prevent flooding of the Project site.  With implementation of BMPs and construction of a new retention Less than significant impacts would occur and no further analysis   | n basin, substanti  |   |   |  |
|     | d) | In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?  d) Less Than Significant Impact. As mentioned above, the we the FEMA 100-year floodplain; although, an earthen flood prote (FEMA 2020). The flood protection berm would prevent flooding the Salton Sea, which is a potential source of seiche. According seiche at the Salton Sea could occur under the appropriate seism no significant seiches occurred to date (County 1993). Further, Project site and the Project site is approximately 100 miles from the or tsunami within the Project site. Impacts would be less than significant seiches occurred to date (County 1993). | estern portion of the ction berm surrou onto the Project so to the County Gemic conditions, but all dams within the coast of the Paragraphs.          | unds the western and s<br>ite. Additionally, the Pro<br>eneral Plan's Seismic ar<br>it there have been a nui<br>the County are approxir<br>cific Ocean. Thus, there                         | outhern sides o<br>ject site is two n<br>nd Public Safety<br>mber of seismic<br>nately 65 miles<br>is no risk of dan    | f the parcel<br>niles east of<br>Element, a<br>events with<br>east of the                                |
|     | e) | Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?  e) Potentially Significant Impact. As discussed above, implemented the Project would implement standard industry BMPs and relevanted retention basin would be developed on the site. The Project water standards or waste discharge requirements, or otherwise substain required for the Project would be purchased from the IID, and IID. A Water Supply Assessment will be prepared to ensure the Project control plan or sustainable groundwater management plan. Further  | t Basin BMPs to c<br>vill not allow any<br>ntially degrade su<br>O operates no wat<br>ct would not confli   | ontrol off-site discharges<br>offsite discharges that<br>rface or ground water qualities<br>ter wells or groundwater<br>ict with or obstruct imple  | s. Additionally, a could violate w<br>uality. Additional recharge areas<br>mentation of a w                             | stormwater<br>vater quality<br>ally, all water<br>is (IID 2017).<br>vater quality                        |
| XI. | LA | ND USE AND PLANNING Would the project:  |   |   |   |  |
|     | a) | Physically divide an established community?  a) No Impact. The Project is located in a rural area approximatel There are no residences in close proximity to the Project site; the and no impacts would occur and no further analysis is required.  |   |   |   |  |
|     | b) | Cause a significant environmental impact due to a conflict with   |   |   |   | $\boxtimes$  |

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(PSI) (PSUMI) (LTSI) (NI)

any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

b) No Impact. The Project site is zoned M-2-G-PE (Medium Industrial /Geothermal Overlay) and the County General Plan designates the Project site as Agriculture land use. According to the General Plan Land Use Element, a non-agricultural land use may be permitted within General Plan-designated agricultural land if the use does not conflict with agricultural operations and will not result in the premature elimination of agricultural operations (County 1993). As analyzed in Section II, Agriculture and Forest Resources above, there is no existing agricultural land on the Project site and the land is not designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance by the Department of Conservation (DOC 2020a). A CUP was issued for the Project in June 2020, making the Project consistent with the site zoning in accordance with the County's Zoning Ordinance. No impacts would occur and no further analysis is required.

## XII. MINERAL RESOURCES 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 $\boxtimes$ state? Result in the loss of availability of a locally-important mineral $\boxtimes$ resource recovery site delineated on a local general plan, specific plan or other land use plan? a) and b) No Impact. Other than the geothermal resources being developed in the Project vicinity, there are no known mineral resources or mineral resource recovery sites within the vicinity of the Project site (DOC 2020d; County 1993). There are a number of mines along the Chocolate Mountain Range to the east, but the closest is approximately 6 miles from the Project site (DOC 2020c). The County General Plan's Additionally, the Project is a geothermal brine processing plant that would produce commercial-grade lithium, zinc, and manganese products, increasing the availability of these mineral resources. The Project would therefore be in alignment with the County General Plan's Renewable Energy and Transmission Element, Objective 3.2, which states that the County should "encourage the continued development of the mineral extraction/production industry for job development using geothermal brines from the existing and future geothermal flash power plants" (County 1993). No known mineral resources or mineral resource recovery sites would be lost as a result of the Project; thus no impacts would occur and no further analysis is required. XIII. NOISE 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 $\boxtimes$ of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? a) Potentially Significant Impact. The Imperial County Municipal Code Title 9 Land Use Code, Division 7, Chapter 2, Section 90702.00 - Sound level limits, establishes one-hour average sound level limits for the County's land use zones. Industrial operations are required to comply with the noise levels prescribed under the general industrial zones. Therefore, the Project is required to maintain noise levels below 75 decibels (dB) (averaged over one hour) during any time of day. The Project would also be expected to comply with the Noise Element of the General Plan, which states that construction noise from a single piece of equipment or a combination of equipment shall not exceed 75 dB when averaged over an eight hour period and measured at the nearest sensitive receptor. The County Noise Element also requires construction equipment operation to be limited to the hours of 7 a.m. to 7 p.m., Monday through Friday, and 9 a.m. to 5 p.m. on Saturdays (County 1993). Approximately 90% of Project construction would occur during daylight hours, but the remaining 10% of work would occur during nighttime hours to avoid extreme summer temperatures. Although the closest sensitive receptor is a residence over one mile north on Pound Road, construction would occur outside the allowable construction noise hours set within the County Noise Element. Impacts would therefore be potentially significant and will be analyzed in the EIR. Generation of excessive groundborne vibration or groundborne noise levels? b) Less Than Significant Impact. Groundborne vibration and groundborne noise could originate from earth movement during the construction phase of the Project. However, significant vibration is typically associated with activities such as blasting or the use of pile drivers, neither of which would be required during Project construction. Additionally, the closest sensitive receptor is a residence over one mile north of the Project site and therefore would not experience damage or nuisance. The Project would be expected to comply with all applicable requirements for long-term operation, as well as with measures to reduce excessive groundborne vibration and noise to ensure that the Project would not expose persons or structures to excessive groundborne vibration. Impacts would be less than

significant and no further analysis is warranted.

| =    |     |  | Potentially<br>Significant<br>Impact<br>(PSI)  | Potentially<br>Significant<br>Unless Mitigation<br>Incorporated<br>(PSUMI)   | Less Than<br>Significant<br>Impact<br>(LTSI)   | No Impact<br>(NI)  |
|------|-----|--|--|--|--|--|
|      | 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?  c) No Impact. The Project site is not located within two miles of a Marician Airport and Compare the Compar |  |  |  |  |
| XIV. | PΩ  | Municipal Airport approximately 6 miles southeast of the Project series area to excessive noise levels. No impact would occur an  PULATION AND HOUSING Would the project:  |  |  | ose people work  | ang in the   |
| AIV. | , , | TOLATION AND TIOCOING Would the project.   |  |  |  |  |
|      | a)  | 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)?   |  |  | $\boxtimes$  |  |
|      |     | a) Less Than Significant Impact. The Project involves construint not propose the development of any housing onsite. The Project was to live in and commute from the local surrounding communities. directly or indirectly, thus impacts would be less than significant a   | ould require apports. Therefore, the Pr  | roximately 62 full-time e oject is not anticipated   | mployees who a   | re expected  |
|      | b)  | Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?   |  |  |  | $\boxtimes$  |
|      |     | b) No Impact. The Project site is partially on the existing HR1 site to the actual power plant, the rest of the land has been used fo additional land that will be included is an approximately 15-acre p. 020-100-046 both of which have been vacant for several decade activities. There are no residences within the Project site or w displaced as a result of the Project. No impacts would occur and   | r laydown areas,<br>arcel, APN 020-1<br>es and were previthin close proxin   | storage areas, and sto<br>00-025, and an approxing<br>viously used for geother<br>nity, thus no existing p   | ormwater manag<br>mate 40-acre po<br>rmal testing and  | ement. The rtion of APN associated   |
| XV.  | Pl  | UBLIC SERVICES   |  |  |  |  |
|      | 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:   |  |  |  |  |
|      |     | 1) Fire Protection?  1) Less Than Significant Impact. Fire protection and emergence closest station to the Project site is the Niland Station, approxime 2020). During construction, the Project site and access road withroughout construction. Fire extinguishers will also be available operations, both the Project access roads (off McDonald Road a fire trucks per fire department standards: 70 feet by 70 feet, and 2 be constructed adjacent to the HR1 water storage pond (on the ejoint fire suppression system to be constructed near the storage connect hose bibs; an underground fire main and surface distribution around the perimeter of the cooling tower; automatic sprinklers for The firewater supply and pumping system will provide an adequate pump will be available onsite. A brush control program will also be being developed to mitigate the potential of an offsite brush fire.  All fire suppression systems will be designed in accordance with   | ately 4 miles nor ately 4 miles nor around the const nd Davis Road) was to see tank. The joint bution equipment the buildings, if note prepared and in | theast or an approximal vegetation and cleared truction site. In case of a would have turnaround addition, a 500,000 gallo te) to serve as the primarier protection system such as yard hydrants needed; and a complete e-fighting water and a 6 applemented on those positions. | tely 9 minute dred areas will be emergency resp areas to allow clon fire water storary water supply will be equipped and hose house detection and ala 2 HP diesel-fuel ortions of the Production and the Pr | ive (Google<br>maintained<br>onse during<br>earance for<br>age tank will<br>for the new<br>d with quick<br>es; monitors<br>arm system.<br>ed firewater<br>oject site not |
|      |     | regulations; and other jurisdictional codes, requirements, and sta   |  |  |  |  |

|                |   | Potentially<br>Significant<br>Impact<br>( <b>PSI</b> )   | Potentially<br>Significant<br>Unless Mitigation<br>Incorporated<br>(PSUMI)  | Less Than<br>Significant<br>Impact<br>(LTSI)  | No Impact<br>(NI)   |
|----------------|---|--|---|---|---|
|                | any and all proposed fire equipment, apparatus, and related fire prevention plans. Acceptable service ratios and response times for fire protection will be maintained following Project implementation through consultation with the ICFD and the County. Impacts would be less than significant and no further analysis is required.  |  |   |   |   |
|                | 2) Police Protection? 2) Less Than Significant Impact. Police protection services The closest police station to the Project site is the Imperial C approximately 10 minute drive (Google 2020). The increase i demand on law enforcement services due to the rural nature of 6-foot-high chain-link security fence, which may be topped v accessed via locked gates with a guard house. As part of the for Project operations and safety purposes. This lighting will income when needed during nighttime hours. In addition, approximate during operations of the Project, thereby minimizing the need further analysis is required. | county Sheriff's office<br>n construction relate<br>of the Project vicinity.<br>with three-strand ban<br>Project design, induselude sensors or swite<br>aly 62 full-time emplo | e in Niland, approximal d traffic is not anticipal Additionally, the Projected wire, and points strial grade lighting southes operated such that yees will be onsite 24 | tely 4 miles north<br>ted to significant<br>act site would be a<br>of ingress/egresa<br>arces would be also<br>at lighting would be<br>hours a day, 7 d | heast or an<br>tly increase<br>fenced with<br>s would be<br>so required<br>be activated<br>ays a week |
|                | 3) Schools?   |  |   |   | $\boxtimes$   |
|                | 4) Parks?   |  |   |   | $\boxtimes$   |
| XVI. <b>R</b>  | 5) Other Public Facilities? 3) through 5) No Impact. There is estimated to be up to 20 approximately 62 full-time employees during operations. It is Project site from surrounding communities. Therefore, substaschools, parks, or other public facilities are not anticipated. No ECREATION   | expected that most<br>antial temporary incre   | of these workers/empeases in population the   | oloyers will comr<br>at will adversely  | mute to the   |
| 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?   |  |   |   | $\boxtimes$   |
| 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?  a) and b) No Impact. There are no parks or other developed immediate vicinity. Further, the Project involves the construction recreational facilities. During construction 200 to 250 workers afull-time workers employed onsite, but these workers and employment from the surrounding local communities. Therefore, existing recreational facilities would occur. No impacts would occur.  | on of a geothermal bare anticipated to be<br>oloyees are expected<br>no increase in popul  | rine processing plant a<br>on the Project site and<br>I to come from existing<br>ation would result and   | and would not co<br>I operation would<br>I populations that   | nstruct any<br>I include 62<br>I live in and  |
| /II. <i>TR</i> | ANSPORTATION Would the project:   |  |   |   |   |
| a)             | Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?   |  |   |   |   |
| b)             | Would the project conflict or be inconsistent with the CEQA Guidelines section 15064.3, subdivision (b)?  a) and b) Potentially Significant Impact. Primary access to access would be located off of Davis Road. According to the Collector and Davis Road is a Major Collector (County 2008). day will travel in and out of the Project site, except during grad site. An average of 100 workers will commute to the Project site to travel in and out of the Project site during normal operation   | County General Plan During construction ing when about 50 to te during constructio   | 's Circulation Element,<br>it is estimated that on<br>060 trucks will be trave<br>n. Approximately 24 tru   | McDonald Road<br>average 20 to 25<br>ling in and out of<br>ucks per day are   | d is a Minor<br>trucks per<br>the Project<br>anticipated  |

XVII.

| _      |     |  | Potentially<br>Significant<br>Impact<br>( <b>PSI</b> )   | Potentially Significant Unless Mitigation Incorporated (PSUMI)  | Less Than<br>Significant<br>Impact<br>(LTSI)   | No Impact<br>( <b>NI</b> )  |
|--------|-----|--|--|---|--|---|
| _      |     | from the Project site. Six of these trucks are estimated for outgoin and processed at the Burrtec Solid Waste Facility. However, it is from the plant would be required to be delivered to a waste treatment of the County, a Traffic Impact Study will be prepared to calcanalyze whether or not the Project aligns with the County's Circu EIR.  | s estimated that unent facility out of culate estimated \  | p to 10% of trucks carr<br>State. Although the Pro<br>/ehicle Miles Traveled (  | rying hazardous<br>oject site is locate<br>(VMT) for the Pro                         | filter cakes<br>ed in a rural<br>oject and to                             |
|        | c)  | Substantially increases hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?   |  |   |  |   |
|        | d)  | Result in inadequate emergency access?  c) and d) Less than Significant Impact. The Project would n access. For emergency response, both the Project access roads to allow clearance for fire trucks per fire department standards: 7 Works, the County Sheriff, and ICFD will be consulted as neces services traveling on McDonald Road or Davis Road during Projeless than significant and no further analysis will be required.   | (off McDonald Ro<br>0 feet by 70 feet, a<br>sary to ensure tha                                       | oad and Davis Road) wo<br>and 20-foot-wide. The C<br>t any potential impacts  | ould have turnar<br>County Departme<br>to the public or                              | ound areas<br>ent of Public<br>emergency                                  |
| XVIII. | TF  | RIBAL CULTURAL RESOURCES   |  |   |  |   |
|        | a)  | Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place or object with cultural value to a California Native American tribe, and that is:  (i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as define in Public Resources Code Section 5020.1(k), or |  |   |  |   |
|        |     | (ii) A resource determined by the lead agency, in its<br>discretion and supported by substantial evidence, to<br>be significant pursuant to criteria set forth in<br>subdivision (c) of Public Resources Code Section<br>5024.1. In applying the criteria set forth is<br>subdivision (c) of Public Resource Code Section<br>5024.1, the lead agency shall consider the<br>significance of the resource to a California Native<br>American Tribe.  |  |   |  |   |
|        |     | (i) and (ii) Potentially Significant Impact. Unrecorded minor grading of the Project site and installation of for California Assembly Bill (AB) 52, Native American tribe November 6, 2020 and offered the opportunity for consconsultation for the Project. Any other requests regarding prepared for the Project in addition to the results of pedestrian survey of the Project site. Further analysis of be addressed in the EIR.   | otings four to six forms with potential resultation. As of Noving consultation will an archaeologica | eet below the ground securces in the area we ember 20, 2020, the Qualities outlined in the Cultual literature review, rec | surface. In accorere notified of the uechan Tribe has ral Resources Rords search, an | rdance with<br>e Project on<br>s requested<br>deport being<br>d intensive |
| XIX.   | UTI | LITIES AND SERVICE SYSTEMS Would the project:  |  |   |  |   |
|        | a)  | Require or result in the relocation or construction of new or expanded water, wastewater treatment or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction of which could cause significant environmental effects?   | $\boxtimes$  |   |  |   |

Impact Incorporated Impact No Impact (PSI) (PSUMI) (LTSI) (NI) a) Potentially Significant Impact. During operations, the Project intends to use or connect to HR1 plant utility infrastructure to the extent possible. The HR1 potable water treatment plant has been renovated to accommodate sufficient use and reliability for both HR1 and the Project facilities. This system will be operated under one permit by HR1 and the Project will purchase water from HR1. Liquid waste generated by the Project will be processed by the HR1 sewer treatment plant and sludge will be pumped by licensed contractors as needed and transported to a sanitary water treatment plant. The Project may also share the HR1 stormwater retention basin, which would be engineered and constructed to contain the combined stormwater storage requirements for both the Project and HR1 sites. If a shared retention basin cannot be done for technical, legal, or other reasons then the Project will construct its own retention basin on the far south side of the parcel. Electrical power required for the Project will be purchased from the IID and a new power line will be constructed to the ATLiS plant site from the current IID/HR1 substation located near the northeast corner of the HR1 property. Natural gas and telecommunications facilities at the Project site would also tie into the existing infrastructure for HR1. A Water Supply Assessment and Energy Analysis will be prepared to analyze potential impacts resulting from the Project's water and power requirements. Approximate wastewater generation will be estimated using water requirements calculated in the Water Supply Assessment. All new utility infrastructure would be built entirely within the previously disturbed parcel, however further analysis is required and potential impacts to utilities will be analyzed in the EIR. Have sufficient water supplies available to serve the project  $\boxtimes$ from existing and reasonably foreseeable future development during normal, dry and multiple dry years? b) Potentially Significant Impact. As described in Section X Hydrology and Water Quality, it is estimated that the Project would require up to 50,000 gallons of water per day during construction for fugitive dust control; approximately 90,000 gallons per hour for operational cooling and other processes; and approximately 112 gallons per hour for potable water purposes during operations. All water required for the Project would be purchased from the IID, whose only source of water is the Colorado River. Climate change scenarios predict a decrease in annual runoff from the Basin to the Colorado River of about 400,000 acre-feet of water 40 percent of the time by 2025 (IID 2012). Therefore, a Water Supply Assessment will be prepared for the Project to analyze potential impacts to the available water supply. Further analysis is required and potential impacts to water will be analyzed in the EIR. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has  $\boxtimes$ adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? c) Potentially Significant Impact. As mentioned above, the Project would utilize the HR1 facility's potable water treatment plant and sewer treatment plant for liquid waste. Both of the plants accommodate sufficient use and reliability for the HR1 and the Project facilities. A Water Supply Assessment is being prepared to estimate the Project's water requirements, which will be used to calculate approximate wastewater generation. Further analysis is required in the EIR to determine potential impacts. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise  $\boxtimes$ impair the attainment of solid waste reduction goals? Comply with federal, state, and local management and  $\boxtimes$ reduction statutes and regulations related to solid waste? d) and e) Potentially Significant Impact. All non-hazardous and hazardous wastes generated during Project construction and operation would be handled and disposed of in accordance with applicable laws, ordinances, regulations, and standards. Nonhazardous solid waste would be disposed of using a locally-licensed waste hauling service, most likely Allied Waste. Solid waste would likely be hauled to the Niland Solid Waste Site located in Niland. The Niland Solid Waste Site has approximately 211,439 cubic yards of remaining capacity and is estimated to remain in operation through 2046 (CalRecycle 2020). Therefore, there is ample landfill capacity in the County to receive the non-hazardous solid waste generated by construction and operation of the Project. Hazardous materials/waste generated by the Project would not be left onsite and will be transported to an approved hazardous waste

landfill. The majority of the outgoing waste generated onsite is expected to be delivered to and processed at the Burrtec Solid Waste Facility, which is anticipated to have ample capacity. Filter cakes generated during the impurity removal process may contain hazardous materials at higher levels than allowed at waste facilities in the state of California, therefore approximately 10% of hazardous waste trucks may be routed to a waste treatment facility in Arizona or Idaho. Further analysis of potential impacts to solid waste is required

Potentially

Significant

**Unless Mitigation** 

Less Than

Significant

Potentially

Significant

Imperial County Planning & Development Services Department

and would be addressed in the EIR.

|        |  | Impact<br>(PSI)   | Incorporated (PSUMI)   | Impact<br>(LTSI)  | No Impact (NI)   |  |
|--------|--|---|--|---|--|--|
| WI     | LDFIRE   |   |  |   |  |  |
| f loca | ted in or near state responsibility areas or lands classified as very hig  | h fire hazard se  | verity zones, would the  | Project:  |  |  |
| a)     | Substantially impair an adopted emergency response plan or emergency evacuation plan?  |   |  | $\boxtimes$   |  |  |
|        | a) Less Than Significant Impact. As mentioned in Section IX Hazards and Hazardous Materials above, CALFIRE's Fire Hazard Severity Zone Viewer identifies no very high, high, or moderate fire hazard severity zones in the local or state responsibility areas within 30 miles of the Project site (CALFIRE 2020). Additionally, as mentioned in Section XV Public Services, all fire suppression systems will be designed in accordance with federal, state, and local fire codes; occupational health and safety regulations; and other jurisdictional codes, requirements, and standard practices. The ICFD will also be consulted to review and approve any and all proposed fire equipment, apparatus, and related fire prevention plans. Compliance with local emergency response and evacuation plans, including the EOP and MJHMP, will be maintained through consultation with the ICFD and the County. Impacts would be less than significant and no further analysis is required. |   |  |   |  |  |
| b)     | Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?   |   |  | $\boxtimes$   |  |  |
|        | b) Less Than Significant Impact. As mentioned above, CALFIF hazard severity zones in the local or state responsibility areas wit Public Safety Element of the County General Plan also states th County is generally low (County 1993). Moreover, the Project site County has experienced damage from heavy winds in the past, ha and updated every 5 years (County 2015). Further, during construct and cleared areas will be maintained throughout construction. Fire During operations, a brush control program will be prepared and developed. Hazardous materials onsite during operations may be ICFD will be consulted to review and approve any and all proposed employees onsite would not be exposed to pollutant concentration further analysis is required.  | hin 30 miles of the potential is flat and is not be a radius in the Coution the Project sextinguishers with implemented on flammable, but I fire equipment, | the Project site (CALFIF for a major fire in the upt within an area of risk unty are managed by the site and access road will be available around the those portions of the apparatus, and related | RE 2020). The unincorporated due to slope. A e MJHMP which I be cleared of a he construction Project site that ms will be instaffire prevention | Seismic and areas of the Although the n is reviewed all vegetation a site as well. at will not be alled and the plans. Thus, |  |
| c)     | Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?  c) Less Than Significant Impact. CALFIRE maps note that no we state responsibility areas are within 30 miles of the Project site (CProject access roads (off McDonald Road and Davis Road) would storage tank will be constructed; and a joint fire protection system would not exacerbate fire risk. Further, these features will be const   | ALFIRE 2020).<br>be constructed<br>will be installe<br>ructed/installed   | To prevent fire-related with turnaround areas; d. These features would and maintained within p   | impacts on the<br>a 500,000 gall<br>d help fire suppreviously distur  | Project site,<br>on fire water<br>oression and<br>bed areas of   |  |
| d)     | the Project site in accordance with federal, state, and local fir jurisdictional codes, requirements, and standard practices. No sign than significant and no further analysis is required.  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?  d) Less than Significant Impact. CALFIRE does not have any does the local or state responsibility areas within 30 miles of the Project within an identified landslide zone (DOC 2020b). According to the border of San Diego and Imperial Counties approximately 30 miles Hydrology and Water Quality, flooding onsite would be prevented  | site (CALFIRE 2<br>County General<br>s west of the Pro  | 2020). The Project site is<br>Plan, the closest area of<br>pject site (County 1993)  | fire hazard seve<br>s also flat and is<br>of landslide acti<br>. As described   | s not located<br>vity is on the<br>in Section X  |  |

Potentially Significant Unless Mitigation

Less Than

Significant

Potentially

Significant

Note: Authority cited: Sections 21083 and 21083.05, Public Resources Code. Reference: Section 65088.4, Gov. Code; Sections 21080(c), 21080.1, 21080.3, 21083,

drainage changes. Impacts would be less than significant and no further analysis is required.

the Project site. The Project would not expose people or structures to significant risks as a result of runoff, post-fire instability, or

XX.

Potentially Significant Impact (PSI)

Potentially Significant Unless Mitigation Incorporated (PSUMI)

Less Than Significant Impact (LTSI)

No Impact (NI)

21083.05, 21083.3, 21093, 21094, 21095, and 21151, Public Resources Code; Sundstrom v. County of Mendocino, (1988) 202 Cal. App. 3d 296; Leonoff v. Monterey Board of Supervisors, (1990) 222 Cal. App. 3d 1337; Eureka Citizens for Responsible Govt. v. City of Eureka (2007) 147 Cal. App. 4th 357; Protect the Historic Amador Waterways v. Amador Water Agency (2004) 116 Cal. App. 4th at 1109; San Franciscans Upholding the Downtown Plan v. City and County of San Francisco (2002) 102 Cal. App. 4th 656.

Revised 2009- CEQA Revised 2011- ICPDS

Revised 2016 – ICPDS Revised 2017 – ICPDS

Revised 2019 - ICPDS

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## **SECTION 3**

## **III. MANDATORY FINDINGS OF SIGNIFICANCE**

The following are Mandatory Findings of Significance in accordance with Section 15065 of the CEQA Guidelines.

| a) | Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal, eliminate tribal cultural resources or eliminate important examples of the major periods of California history or prohistory? |   |   |  |                                     |
|----|--|---|---|--|-------------------------------------|
|    | history or prehistory?  a) Potentially Significant Impact. As discussed in Sections IV Project has the potential to impact sensitive biological resource and Cultural Resources Assessment are being prepared for taddressed in the EIR.   | s and cultural/paleontolog  | ical resources. A                                     | Biological Techn   | ical Report                         |
| b) | Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of   |   |   |  |                                     |
|    | probable future projects.) b) Potentially Significant Impact. The Project has the potentially or related projects, may result in a cumulatively considerable net increase in one or more criterial applicable federal and state ambient air quality standards. There   | iderable impact. Specificate pollutants for which the                                   | ally, the Project h<br>e Project region               | as the potential to is in non-attainr                    | o result in a<br>ment under         |
| c) | Does the project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly? c) Potentially Significant Impact. The Project has the potenti indirectly cause adverse effects on human beings. As demor significant impacts to air quality, biological resources, cultural rehazardous materials, hydrology and water quality, noise, trans These impact areas could result in direct or indirect adverse et will be discussed in the EIR.                 | nstrated in this Initial Studesources, energy, geology<br>portation, Tribal cultural re | dy, the Project has and soils, greer esources, and ut | has the potential house gasses, had illities and service | to result in azards and as systems. |

## IV. PERSONS AND ORGANIZATIONS CONSULTED

This section identifies those persons who prepared or contributed to preparation of this document. This section is prepared in accordance with Section 15129 of the CEQA Guidelines.

## A. COUNTY OF IMPERIAL

- Jim Minnick, Director of Planning & Development Services
- Michael Abraham, AICP, Assistant Director of Planning & Development Services
- David Black, Project Planner
- Imperial County Air Pollution Control District
- Department of Public Works
- Fire Department
- Ag Commissioner
- Environmental Health Services
- Sheriff's Office

## **B. CHAMBERS GROUP**

- Corinne Lytle-Bonine, Principal In Charge
- Victoria Boyd, Project Manager
- Elizabeth Fortin, Environmental Planner
- Phillip Carlos, GIS Specialist

## C. OTHER AGENCIES/ORGANIZATIONS

Quechan Tribe

## V. REFERENCES

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